

:\$ LOUIT D. DOUT

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FIG. 2A

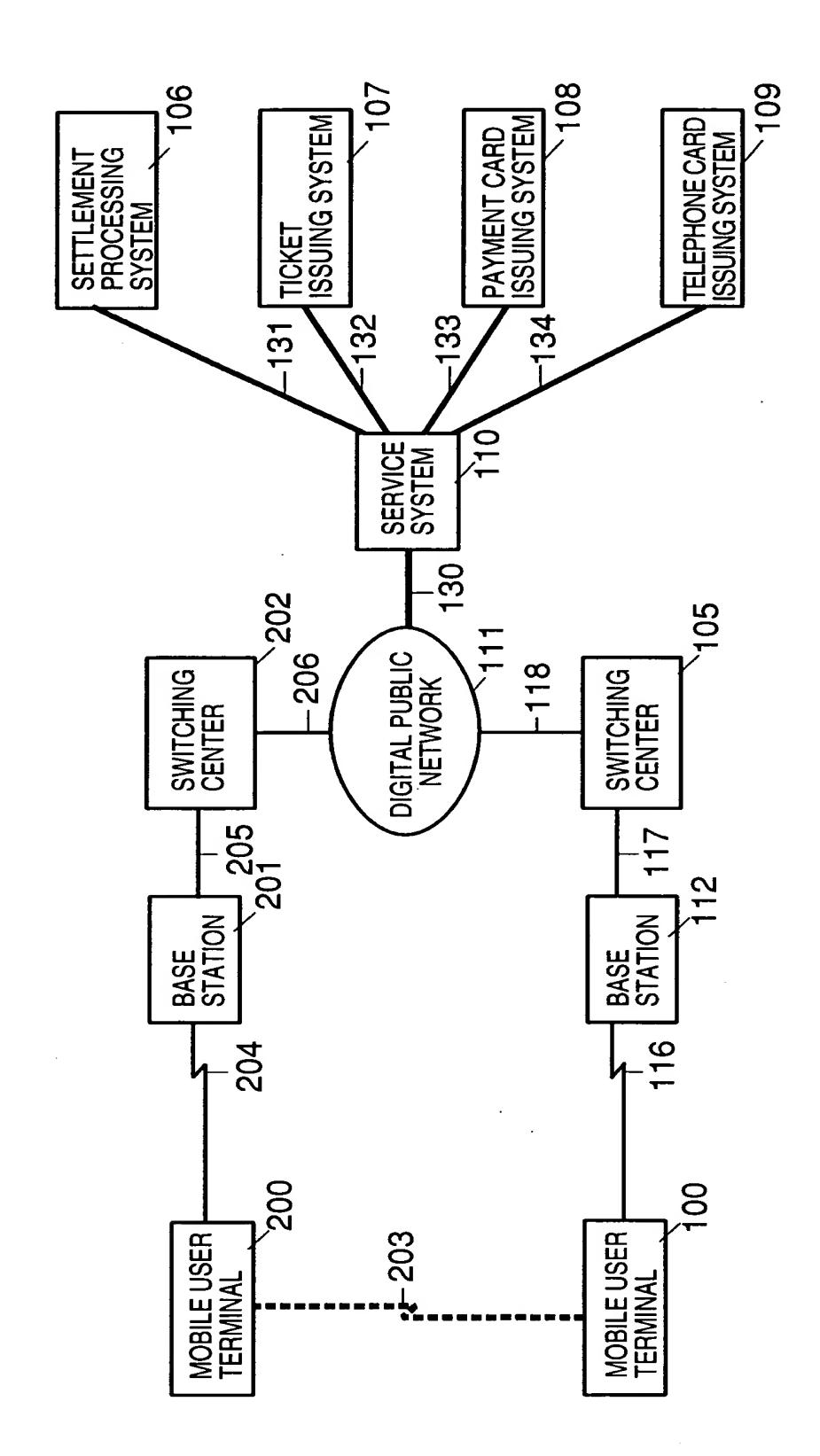
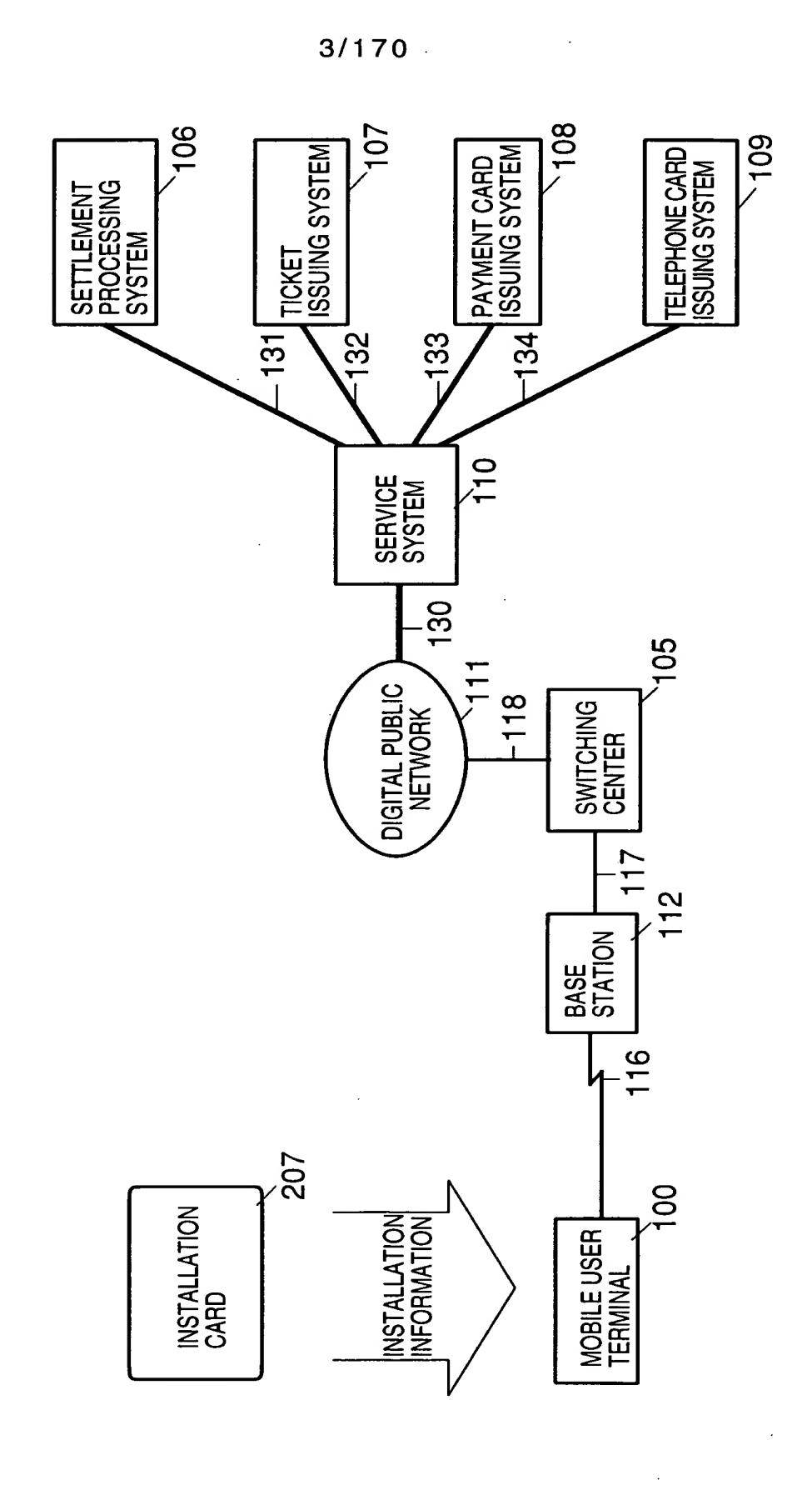


FIG. 2B



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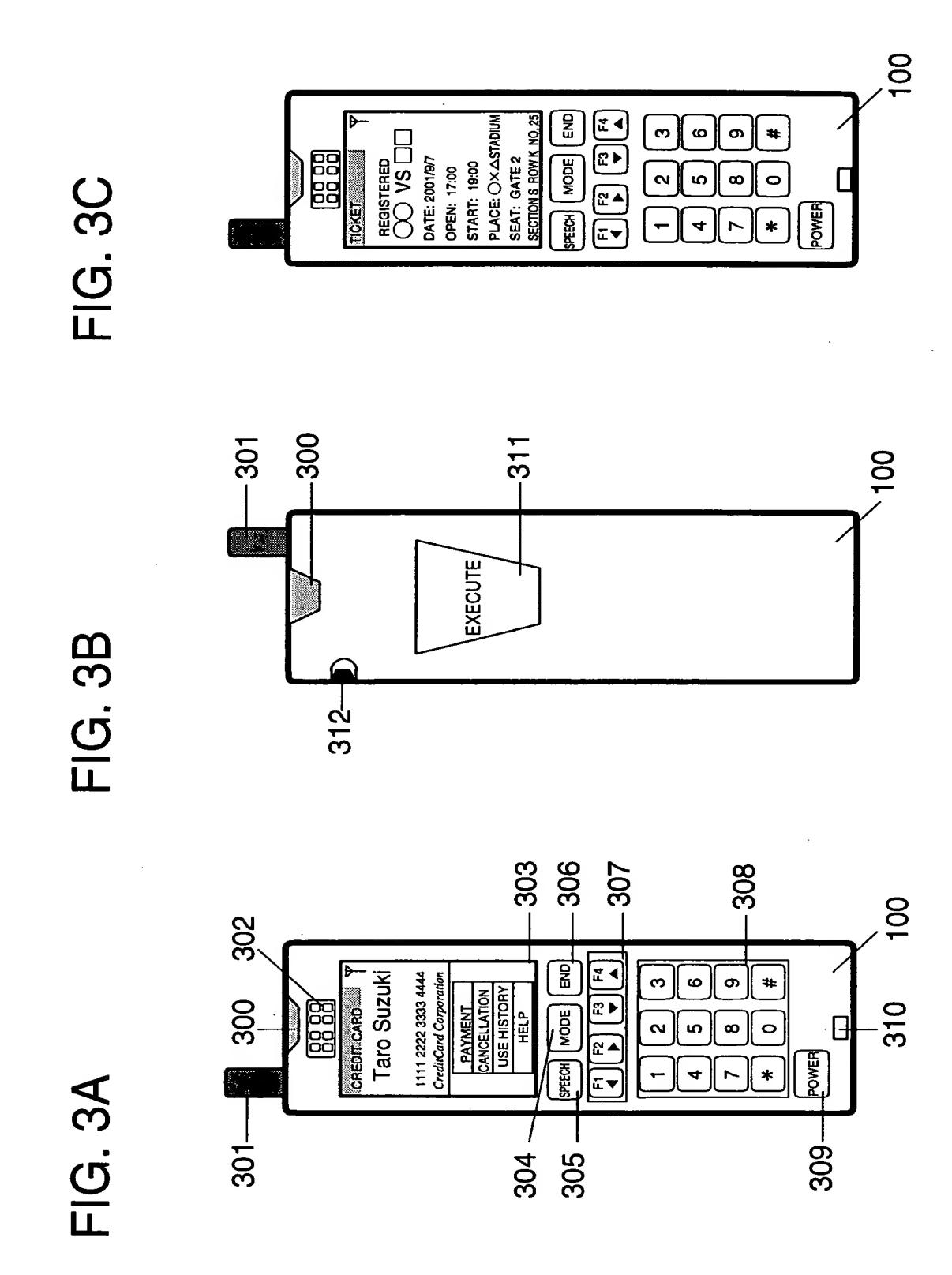


FIG. 3D

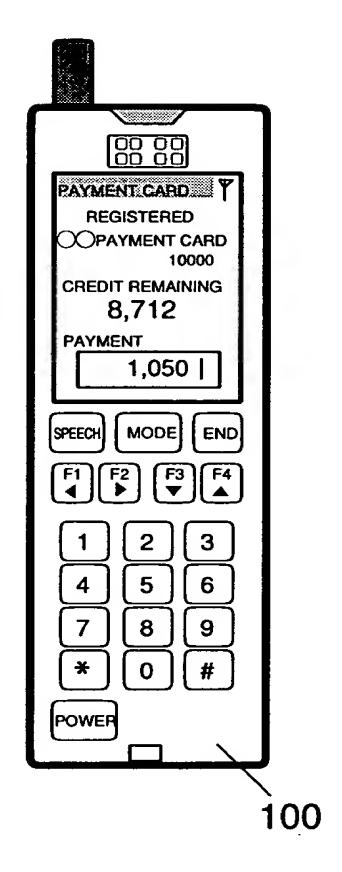
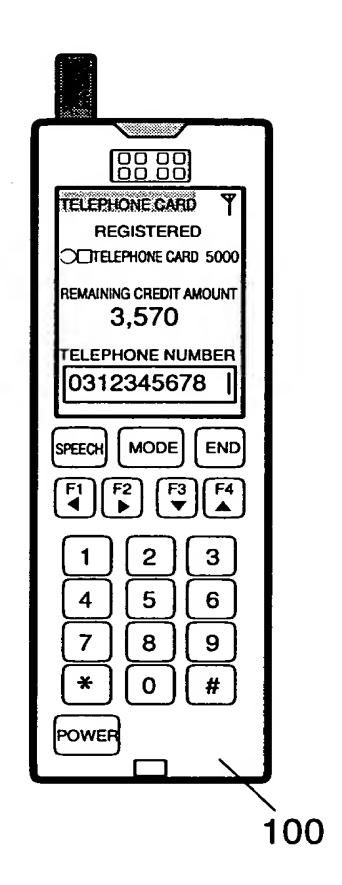
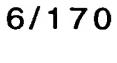
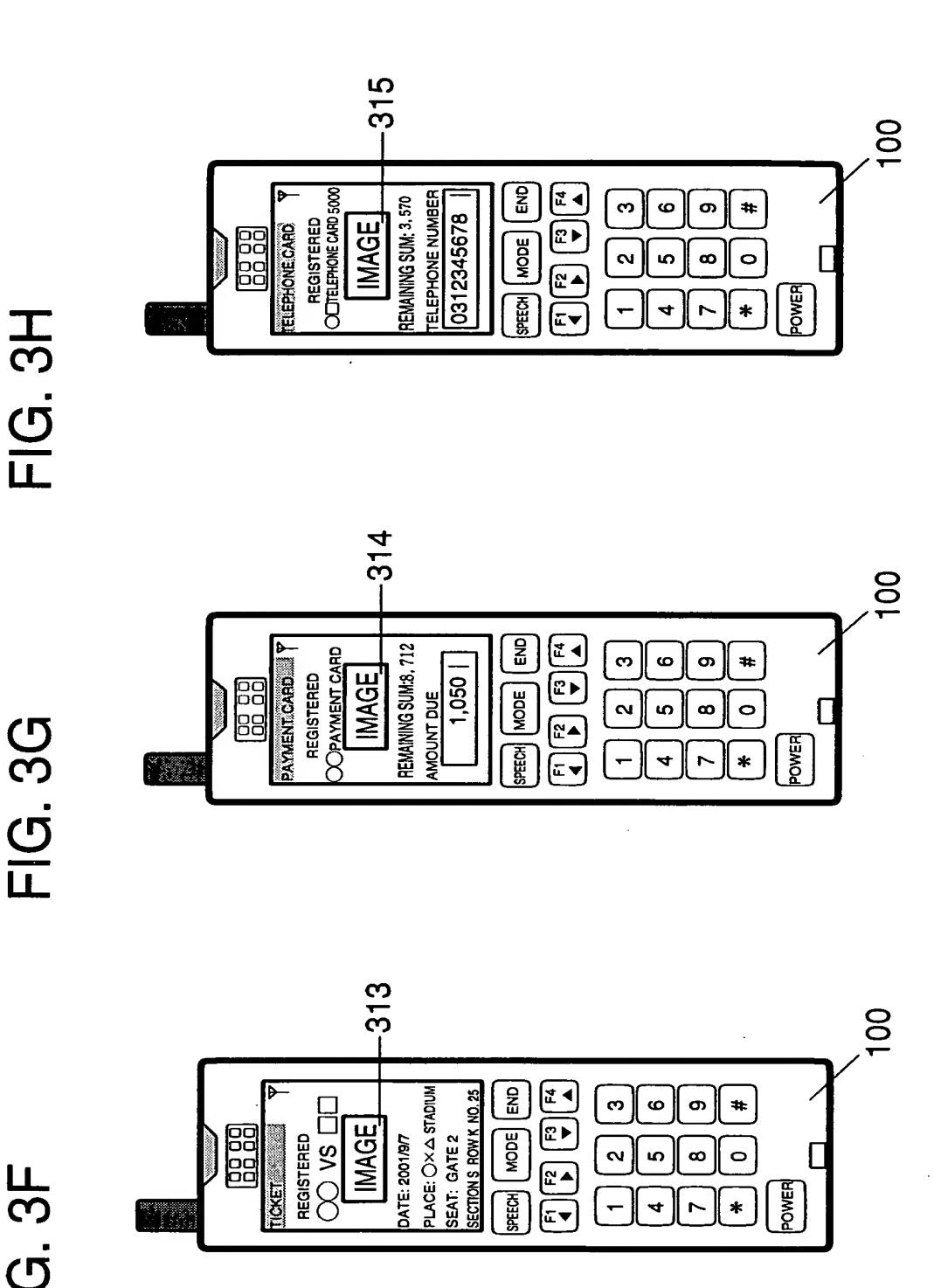


FIG. 3E

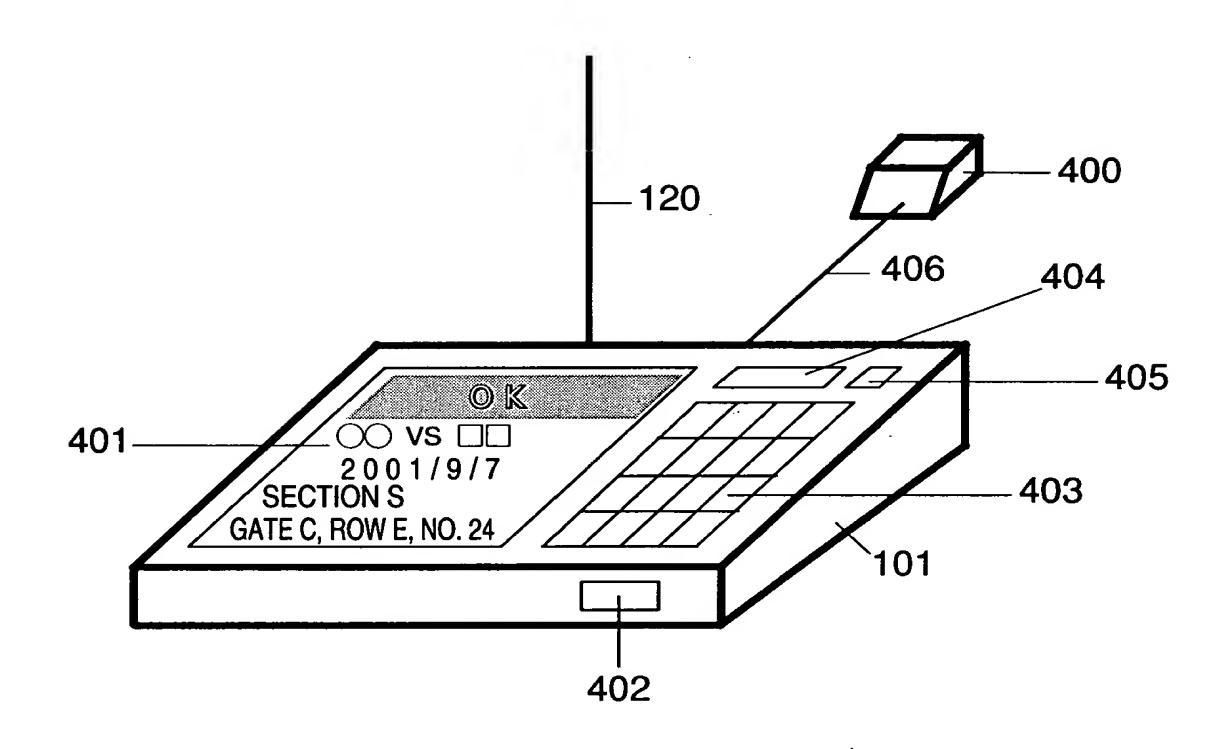






MOBILE USER TERMINAL

FIG. 4





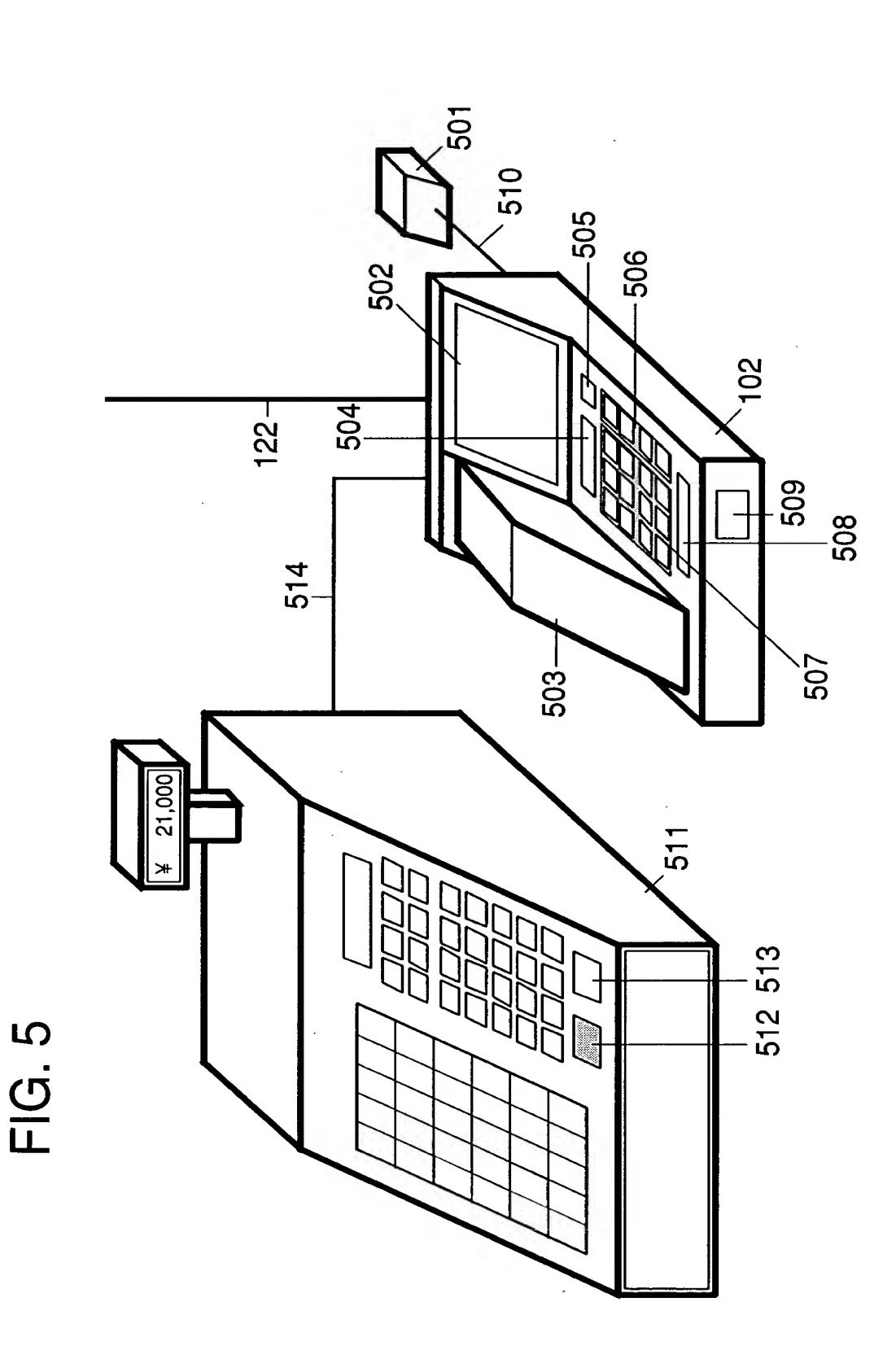
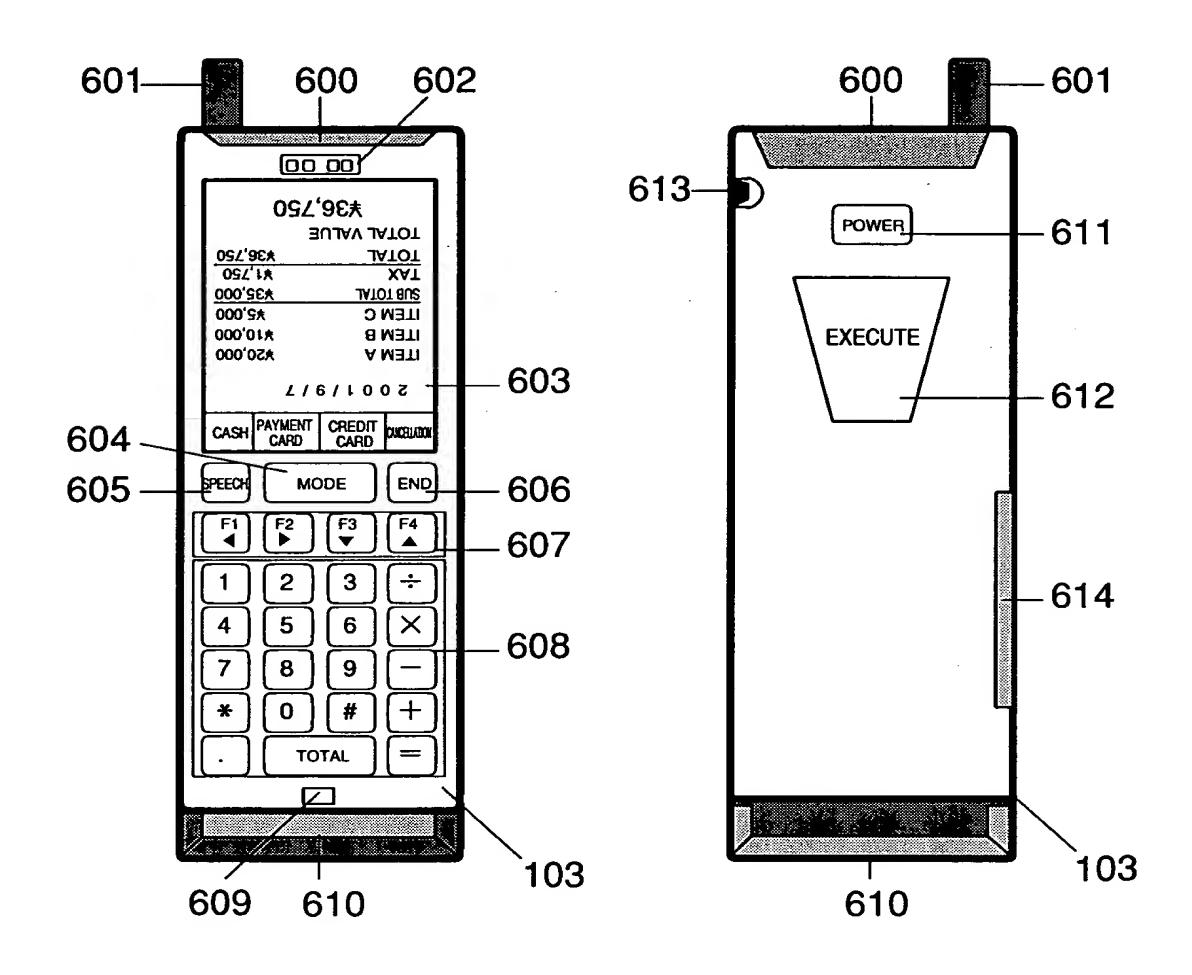
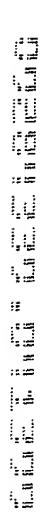
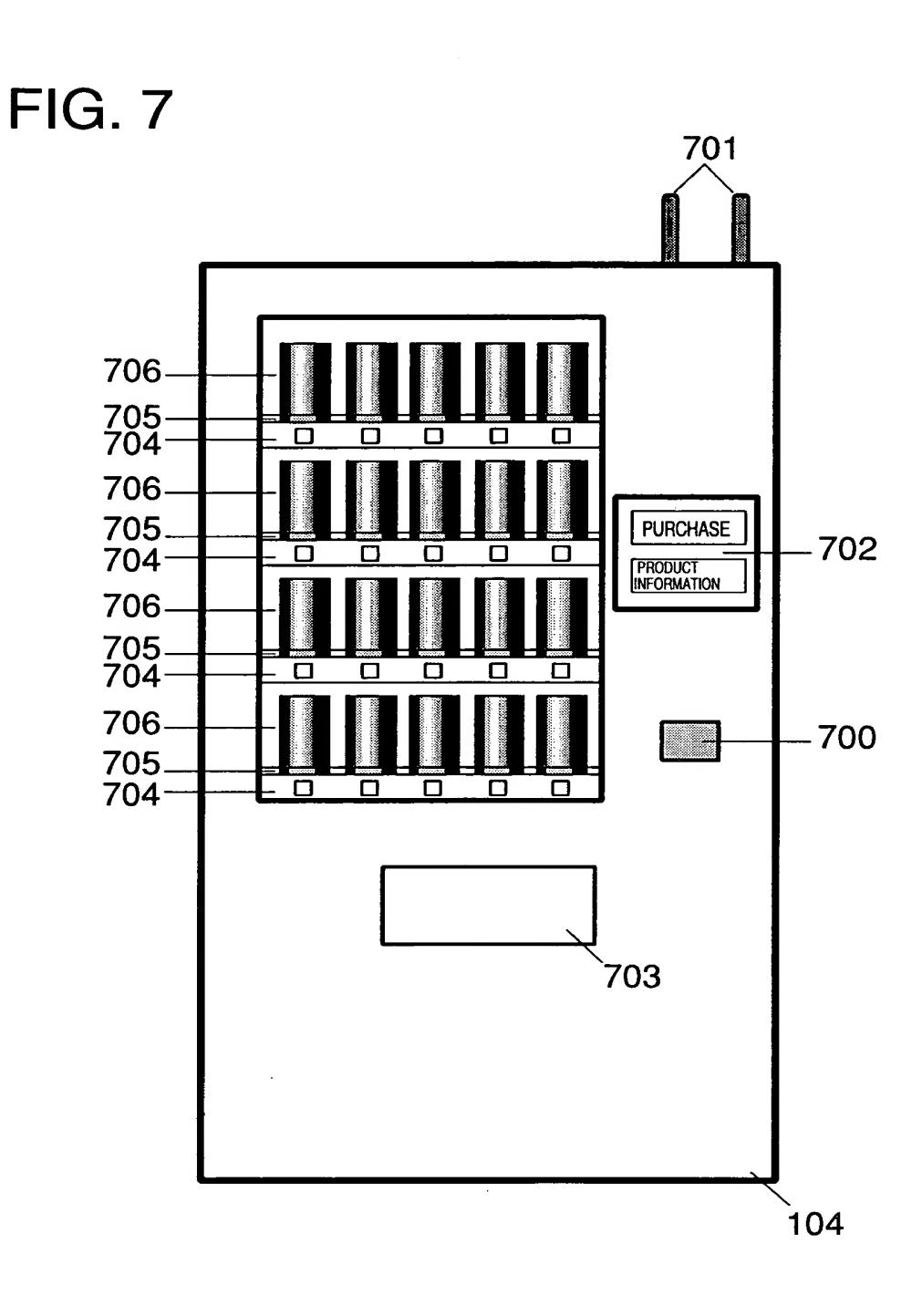


FIG. 6A

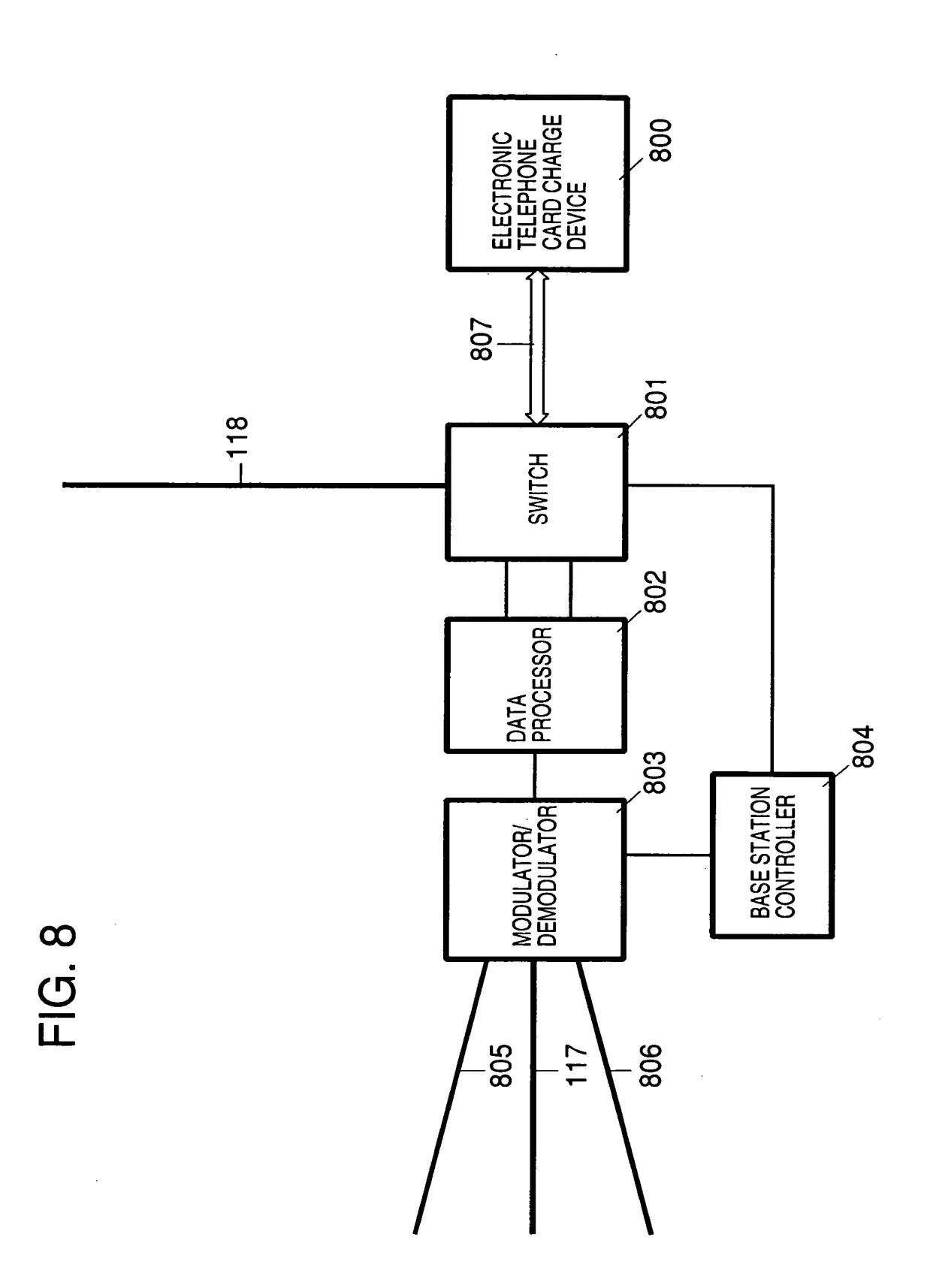
FIG. 6B

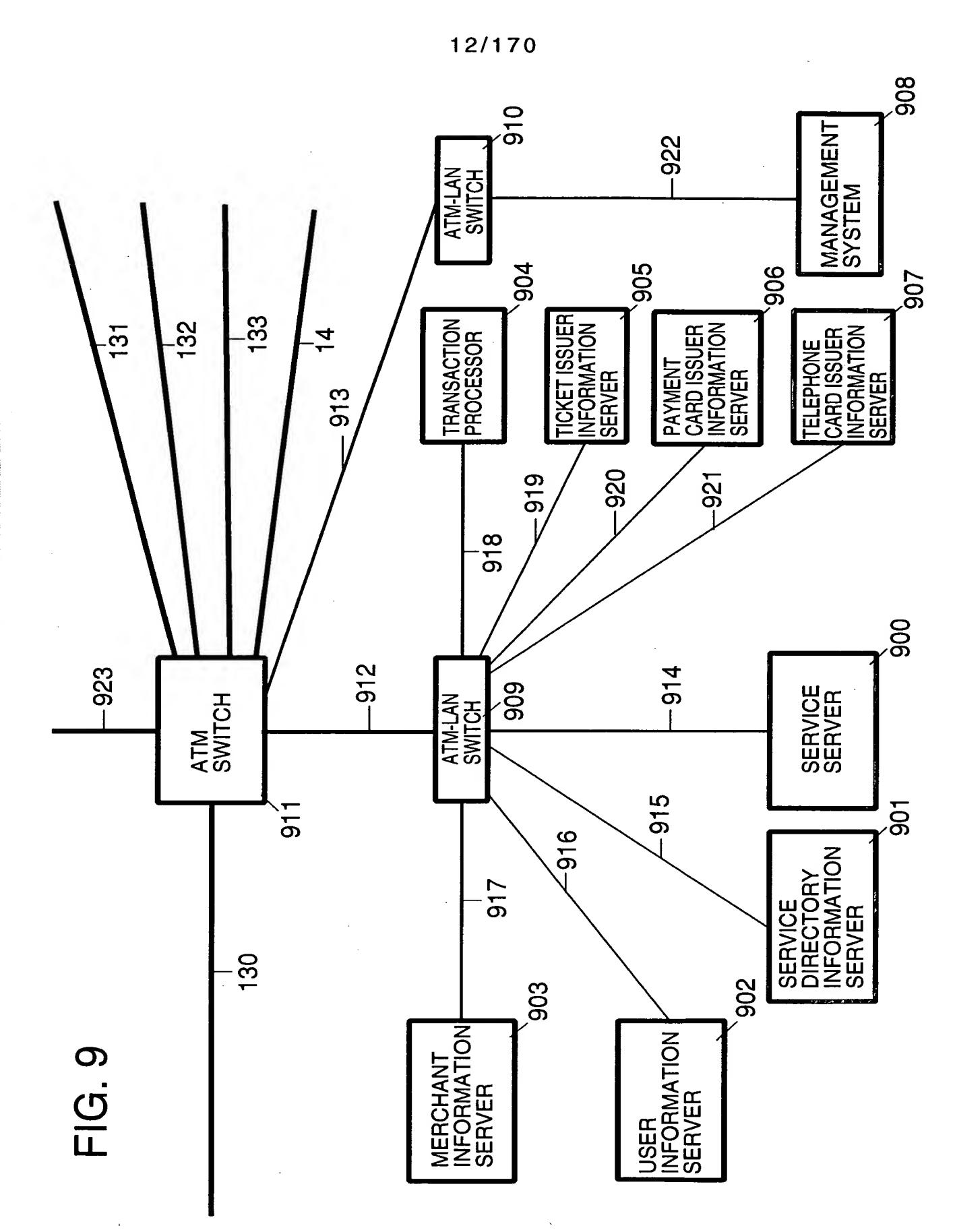




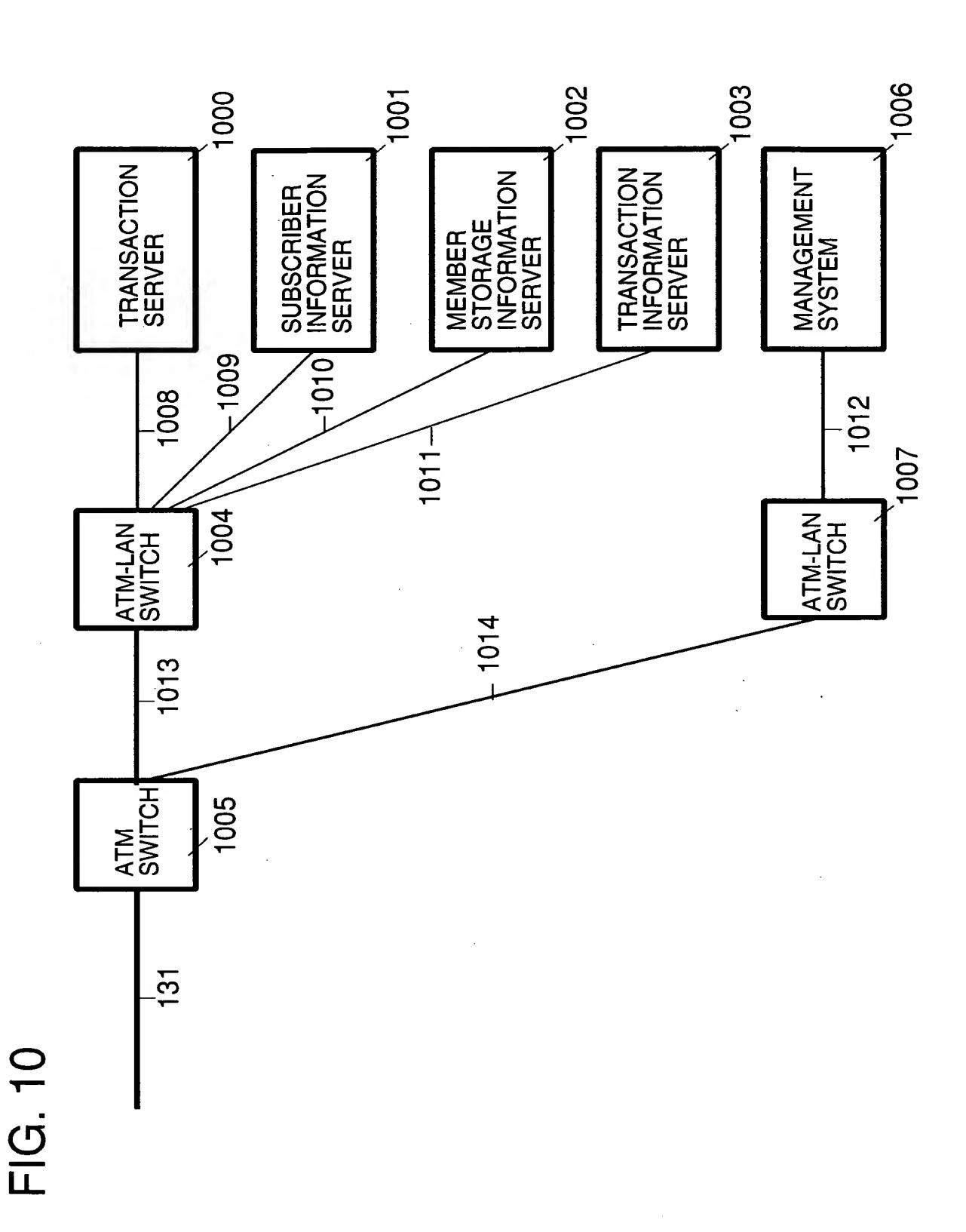


11/170

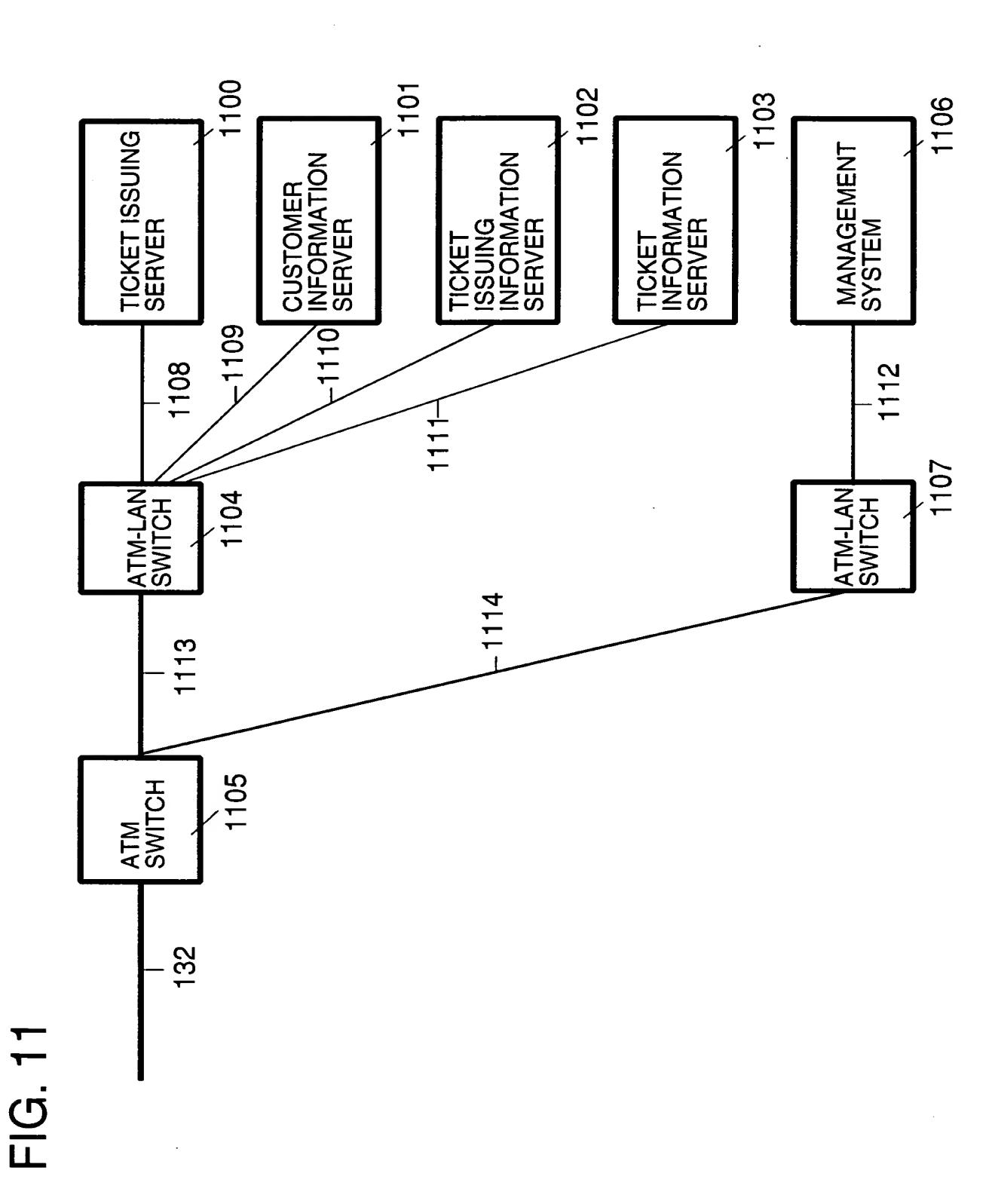




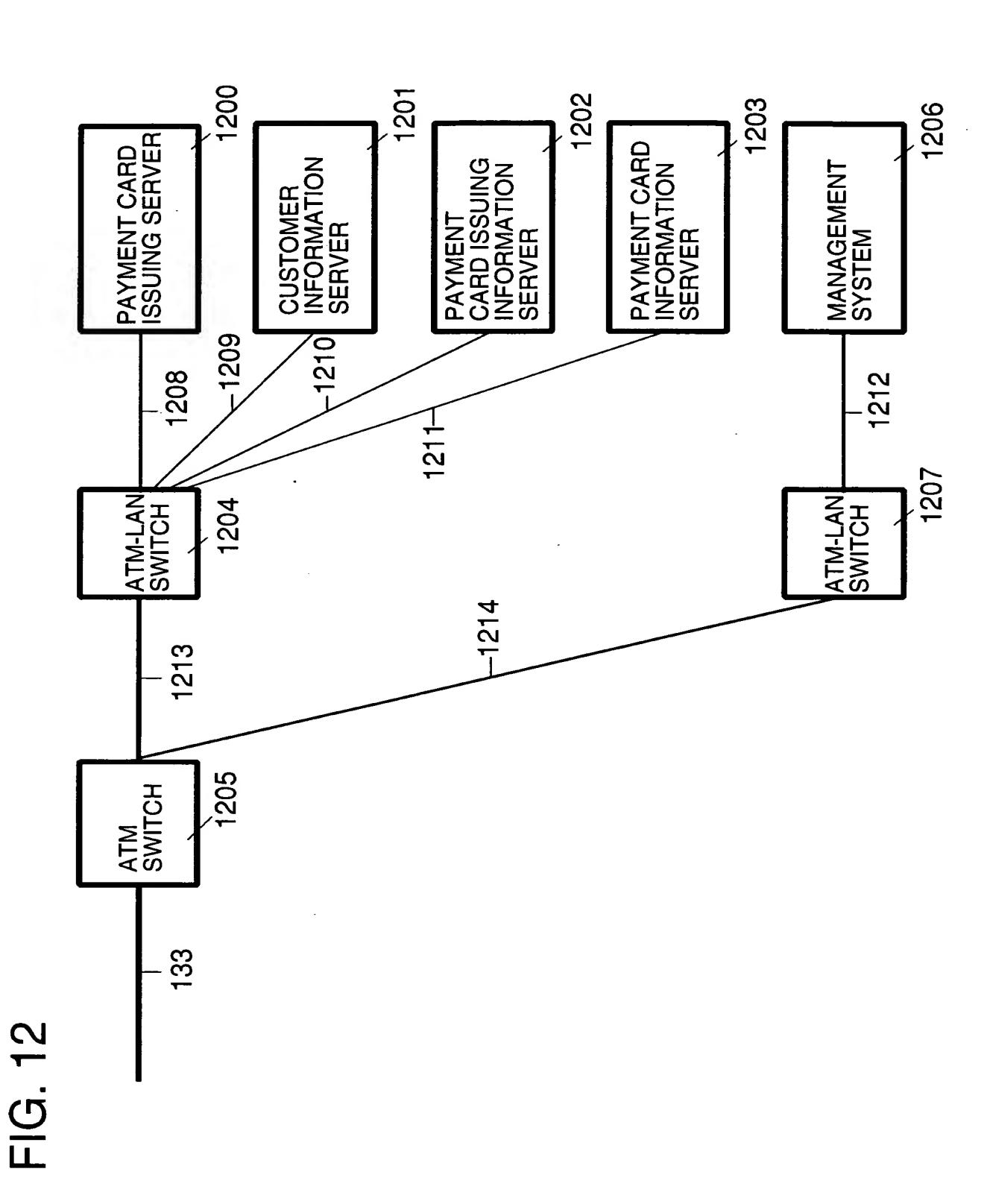
13/170



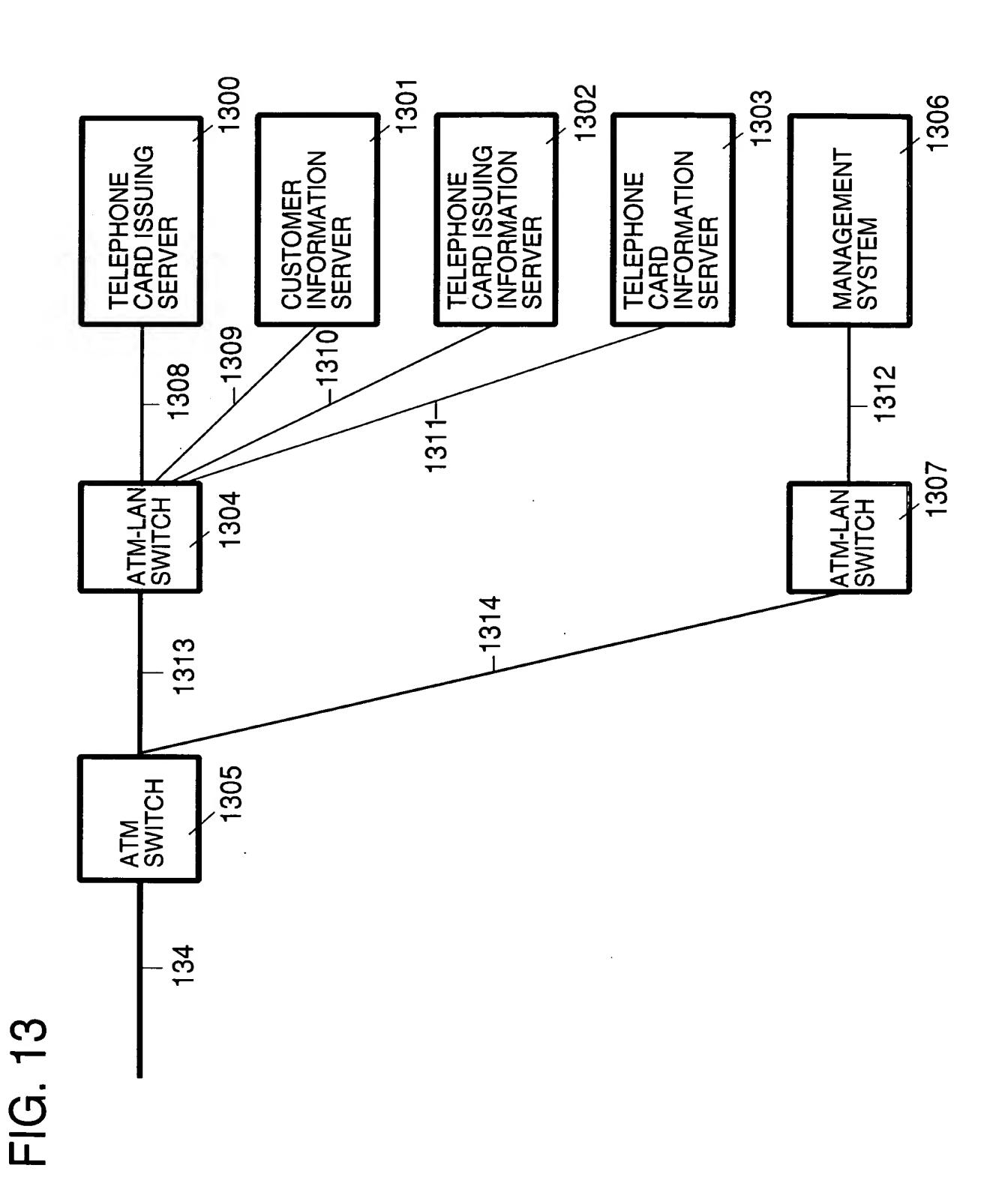
14/170



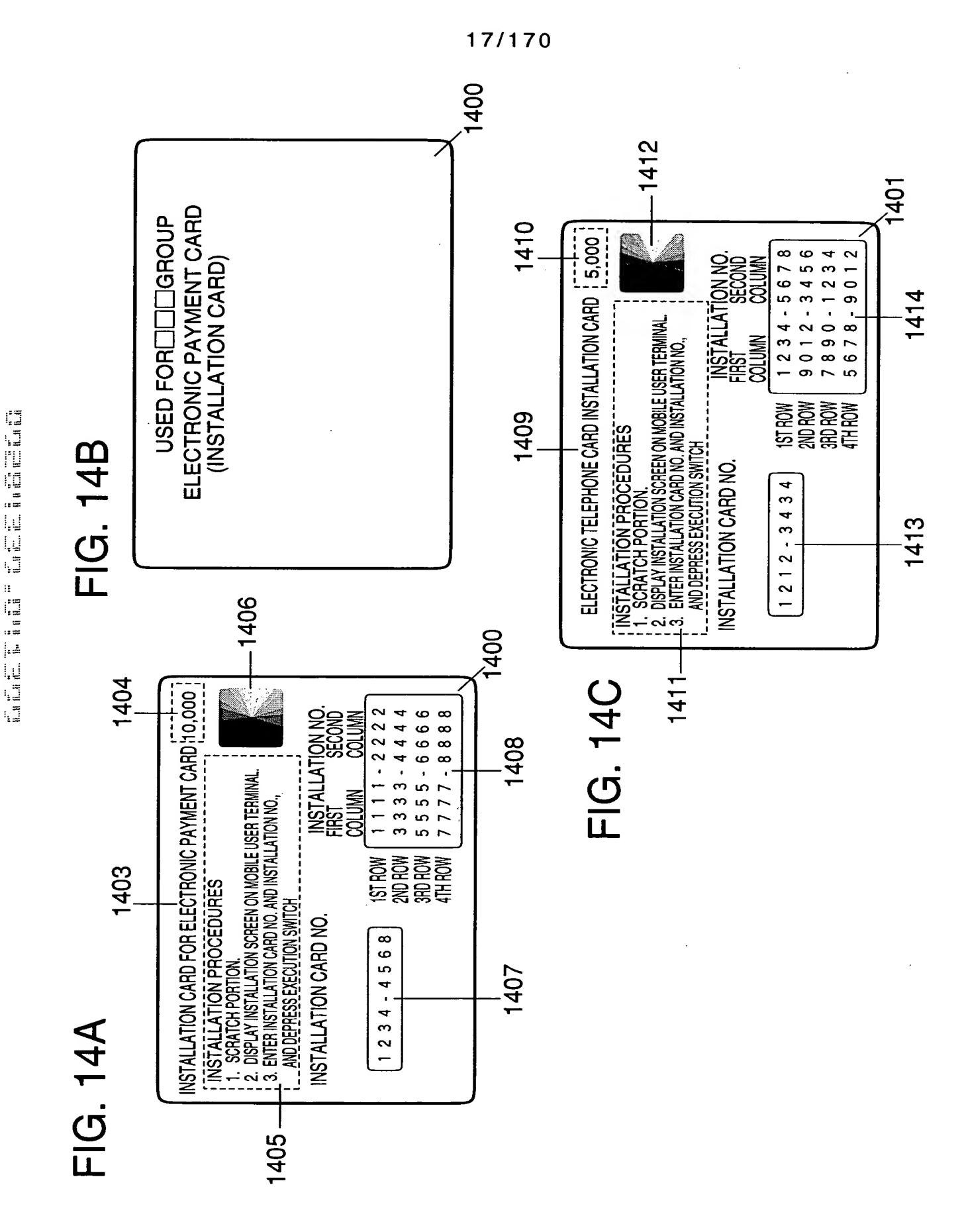
15/170



16/170



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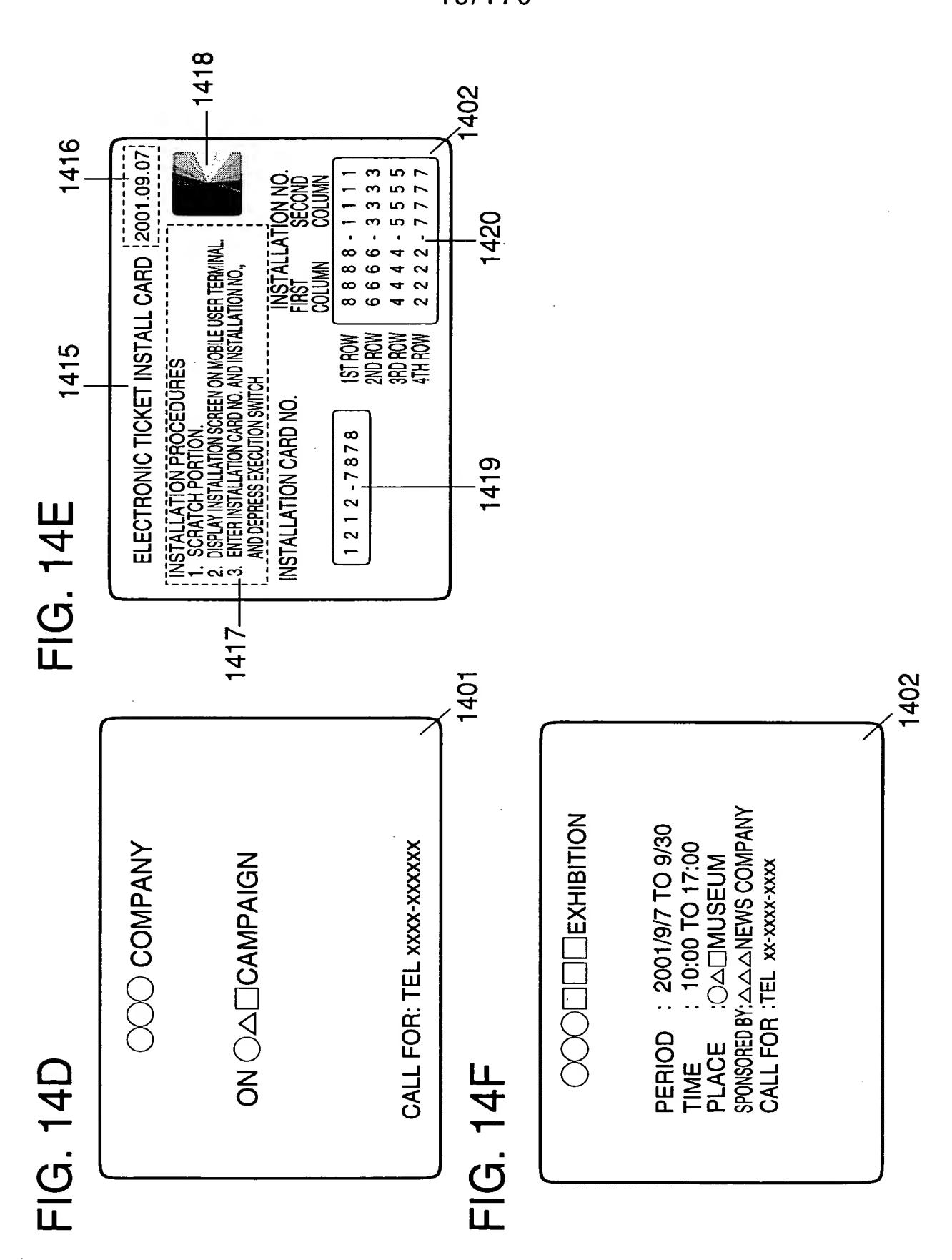


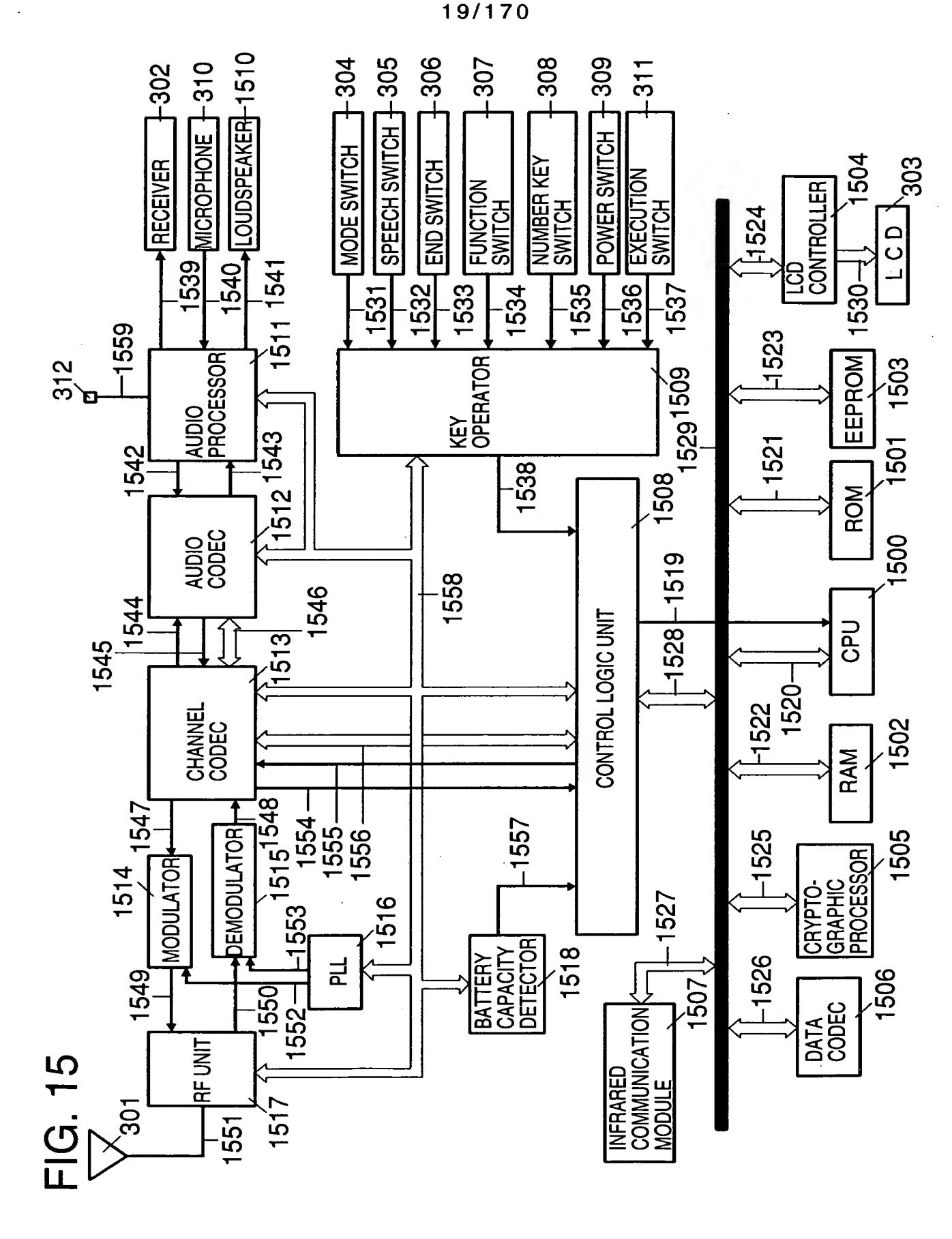
R. H. E. H. H.

: =

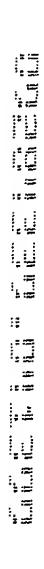
. F 255 12: 25 22: 25

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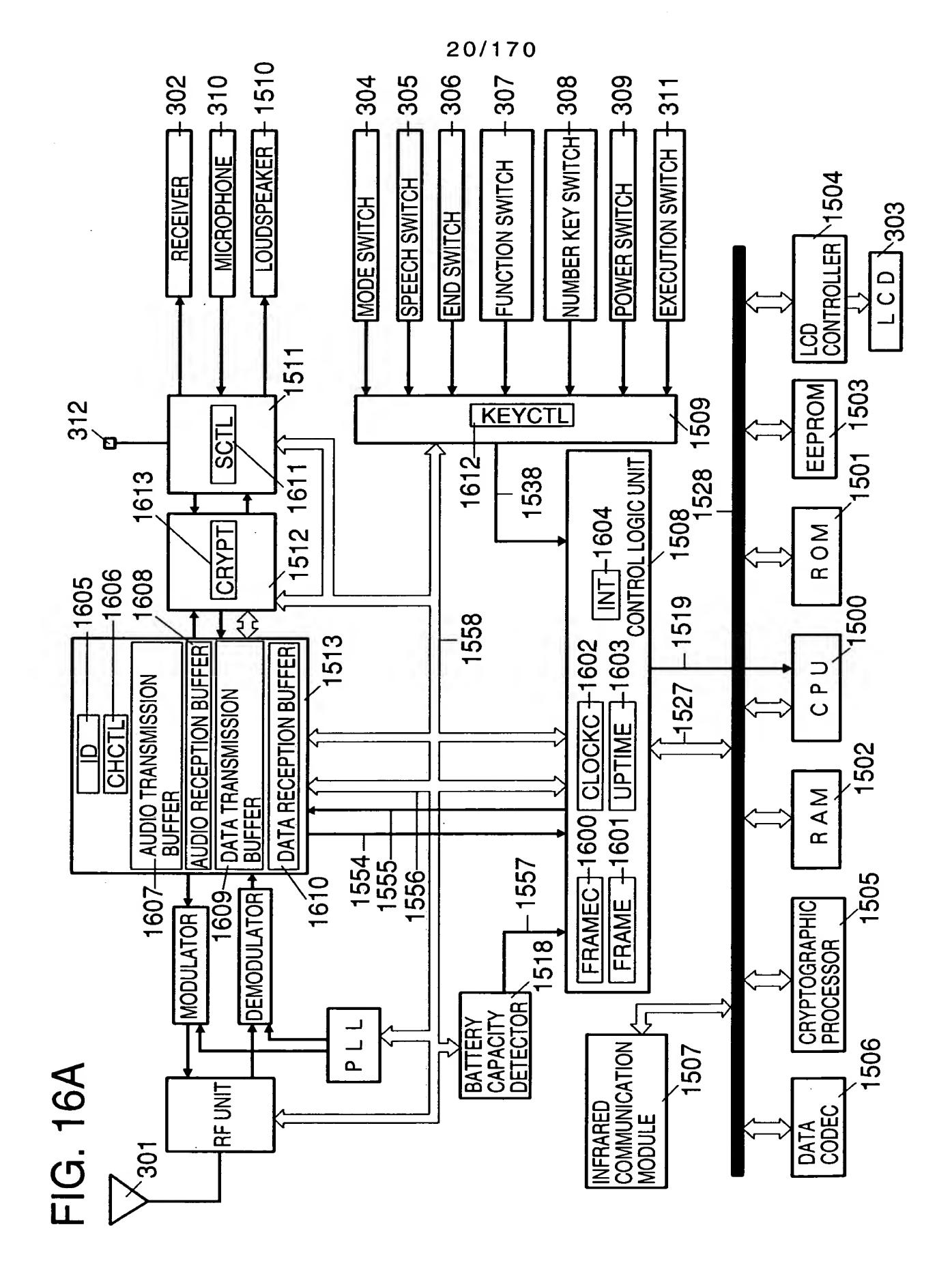
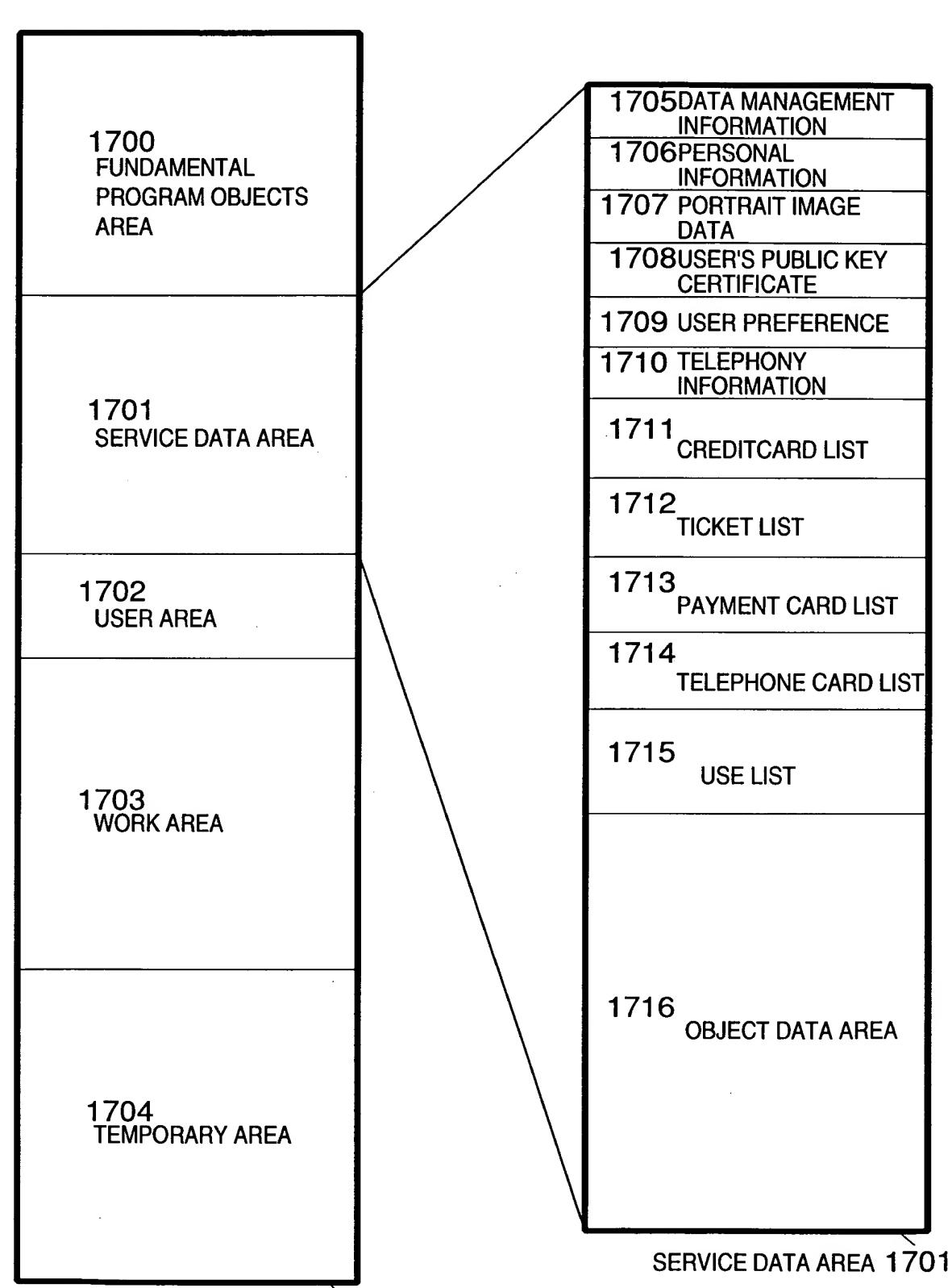


FIG. 16B

	21/170				
16	"POWER"	0	. 0 .		
17	"Mode" 'Execute' "Power"	1	n n		
8	"MODE"	5	5		
19	"SPEECH"	3	"3"		
20	"END"	4	4		
21		2	. 5		
22		9	<u>.</u> 9		
23		7	/		
24	KEY INTERRUPT	8	= & =		
25	JPDATE BATTERY KEY NTERRUPT INTERRUPT	6	<u>"</u> ၆ <u>"</u>		
56		10	= ** =		
27	DATA NRECEPTION INTERRUPT	=	= # =		
28	CALL DATA RECEPTION RECEPT INTERRUPT INTERRI	12	- - -		
59	FRAME FINTERRUP	13	"F 2"		
30	WIRELESS FRAME INTERRUP DISPLAY	14	т "Е		
31	POWER DISPLAY	15	"F4"		
	Z		<u>F</u>		

FIG. 17



RAM 1502

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FIG. 18

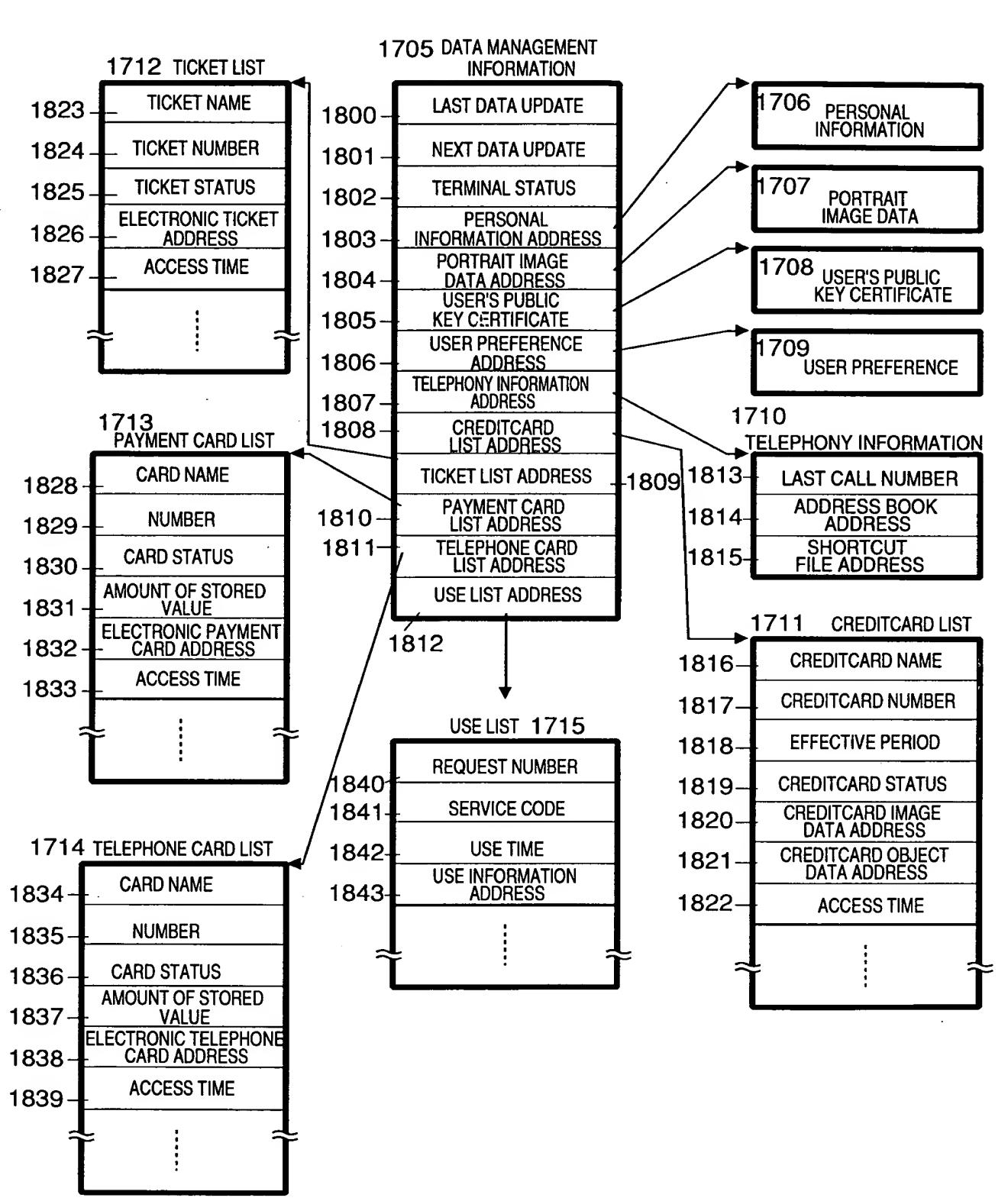
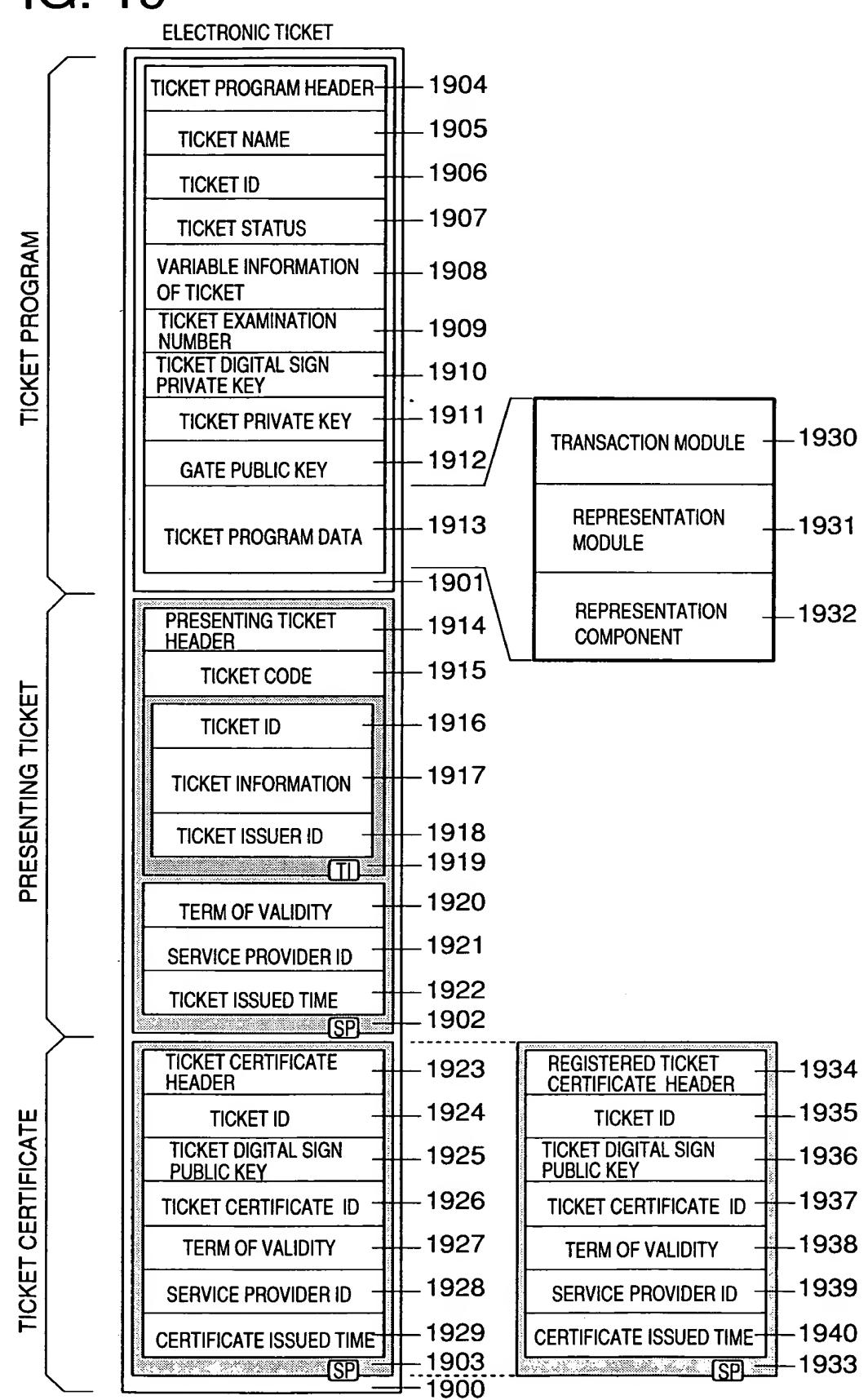
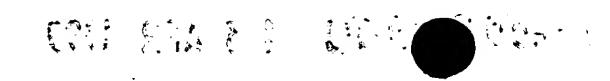
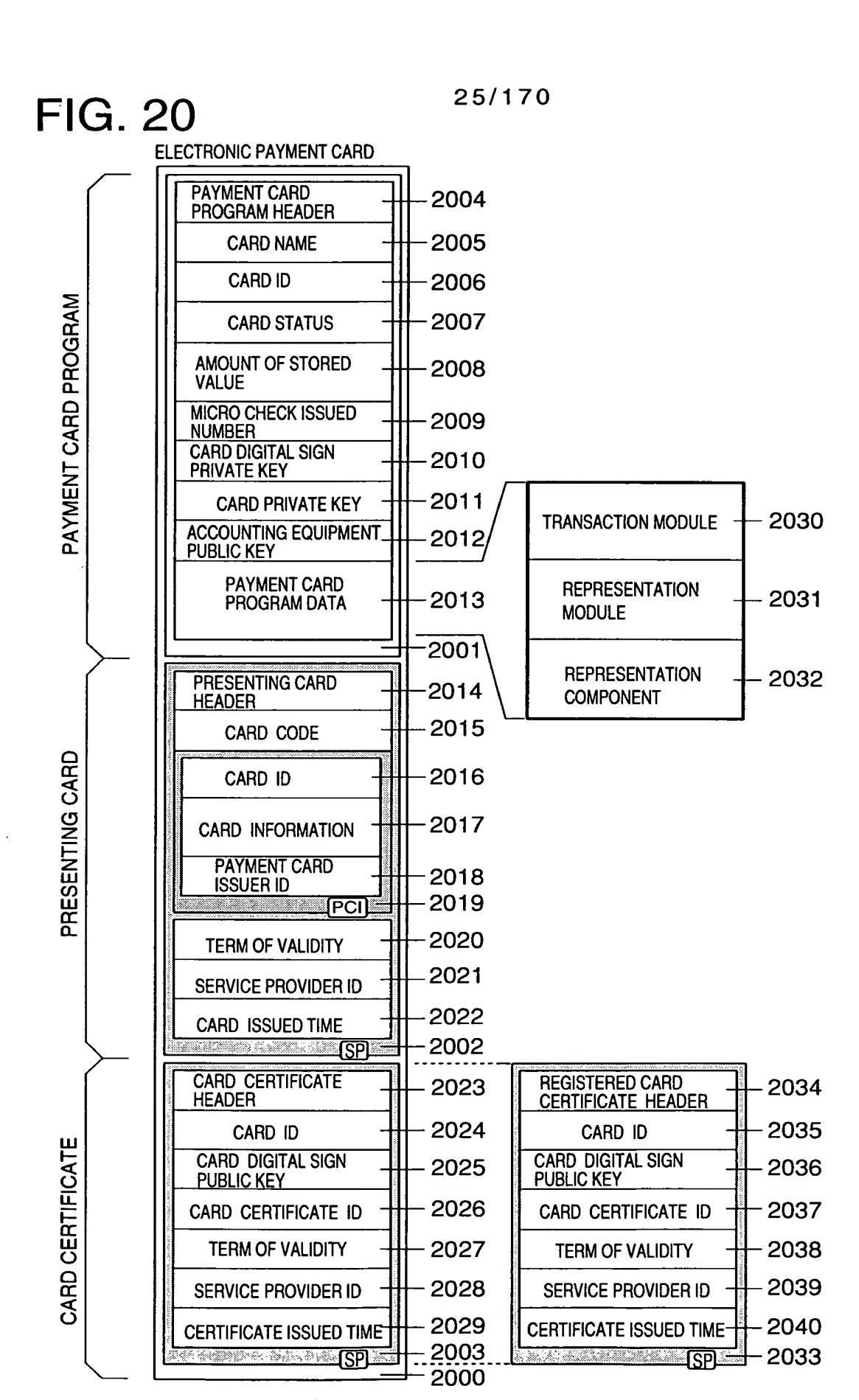




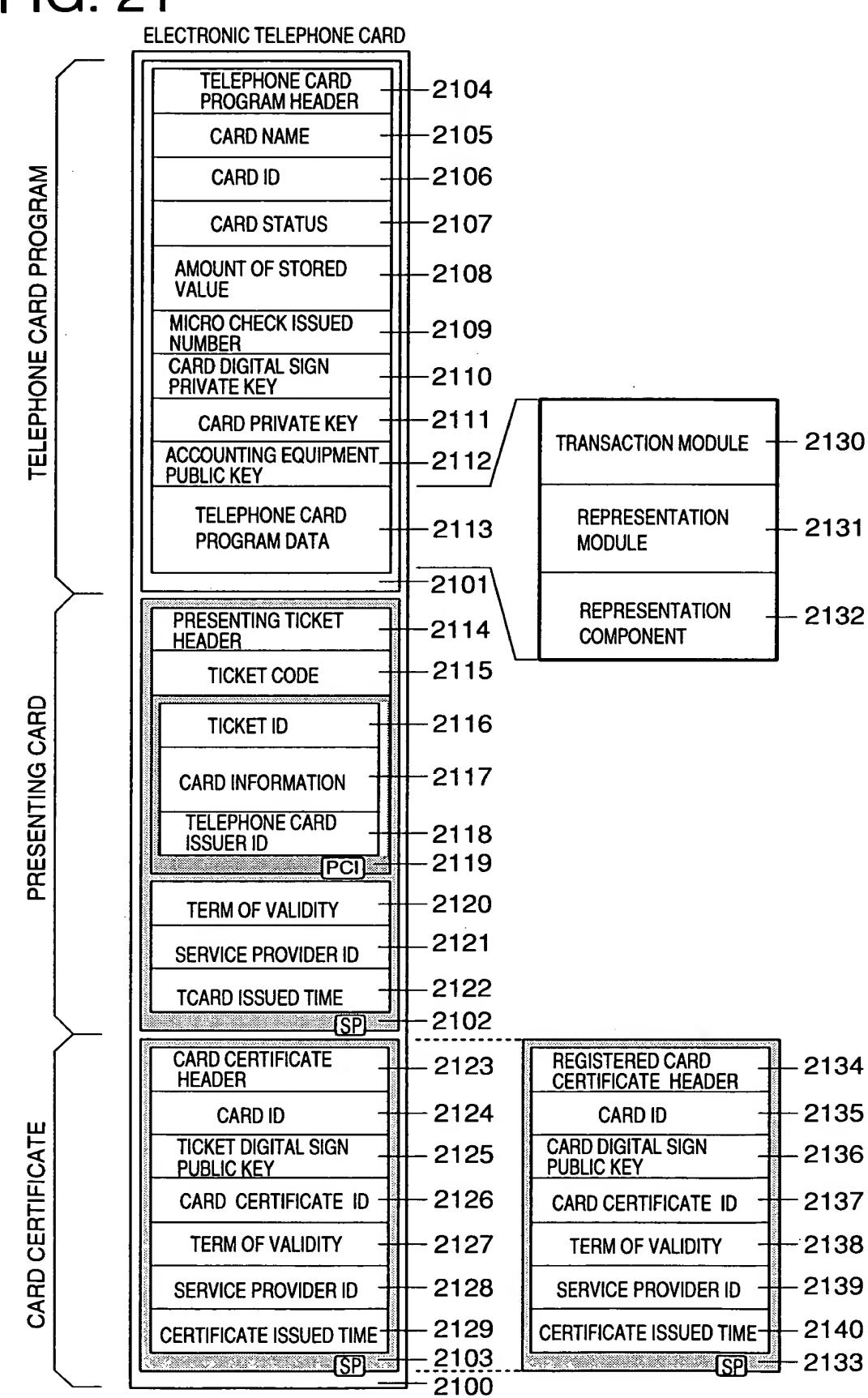
FIG. 19

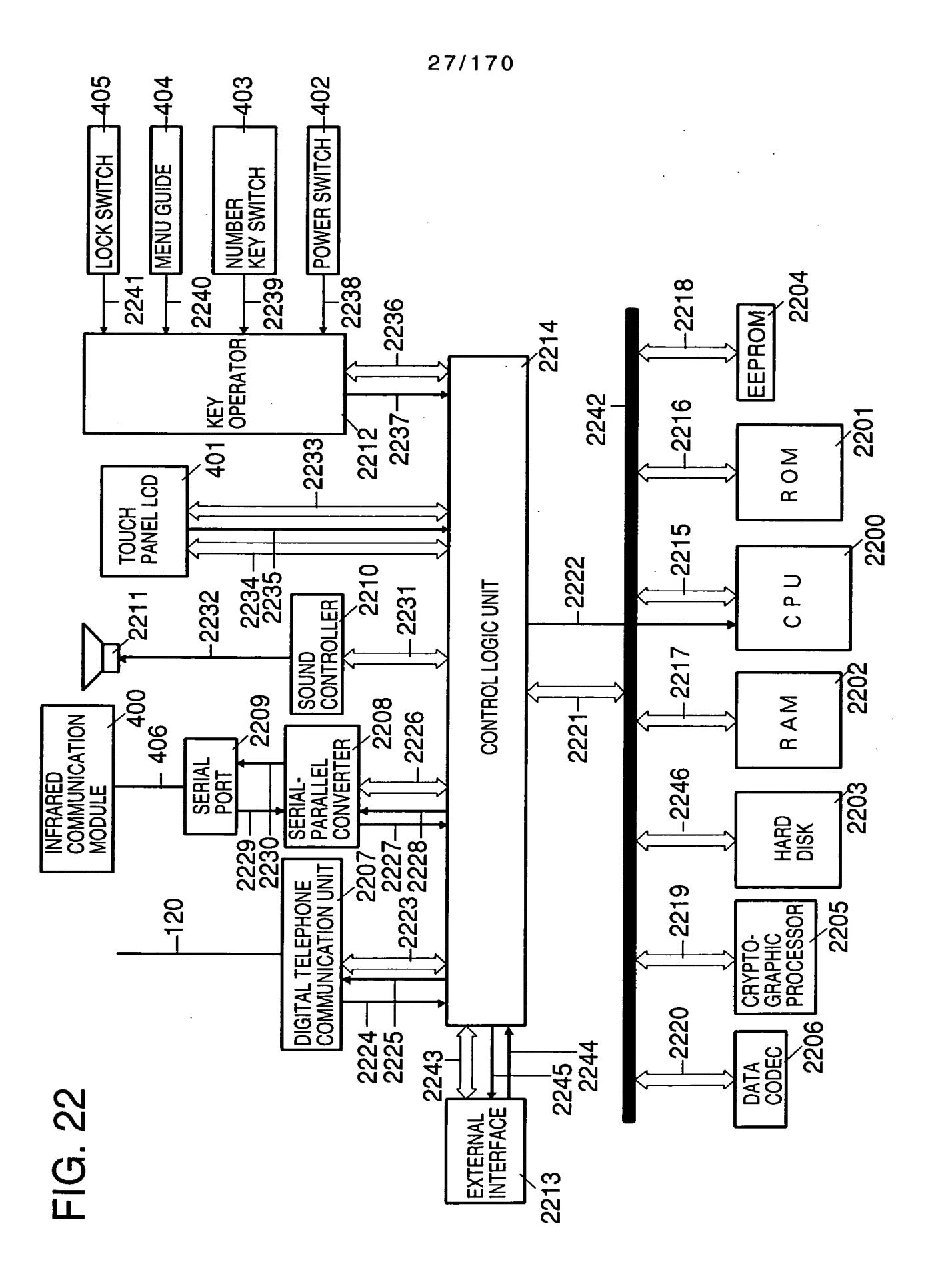












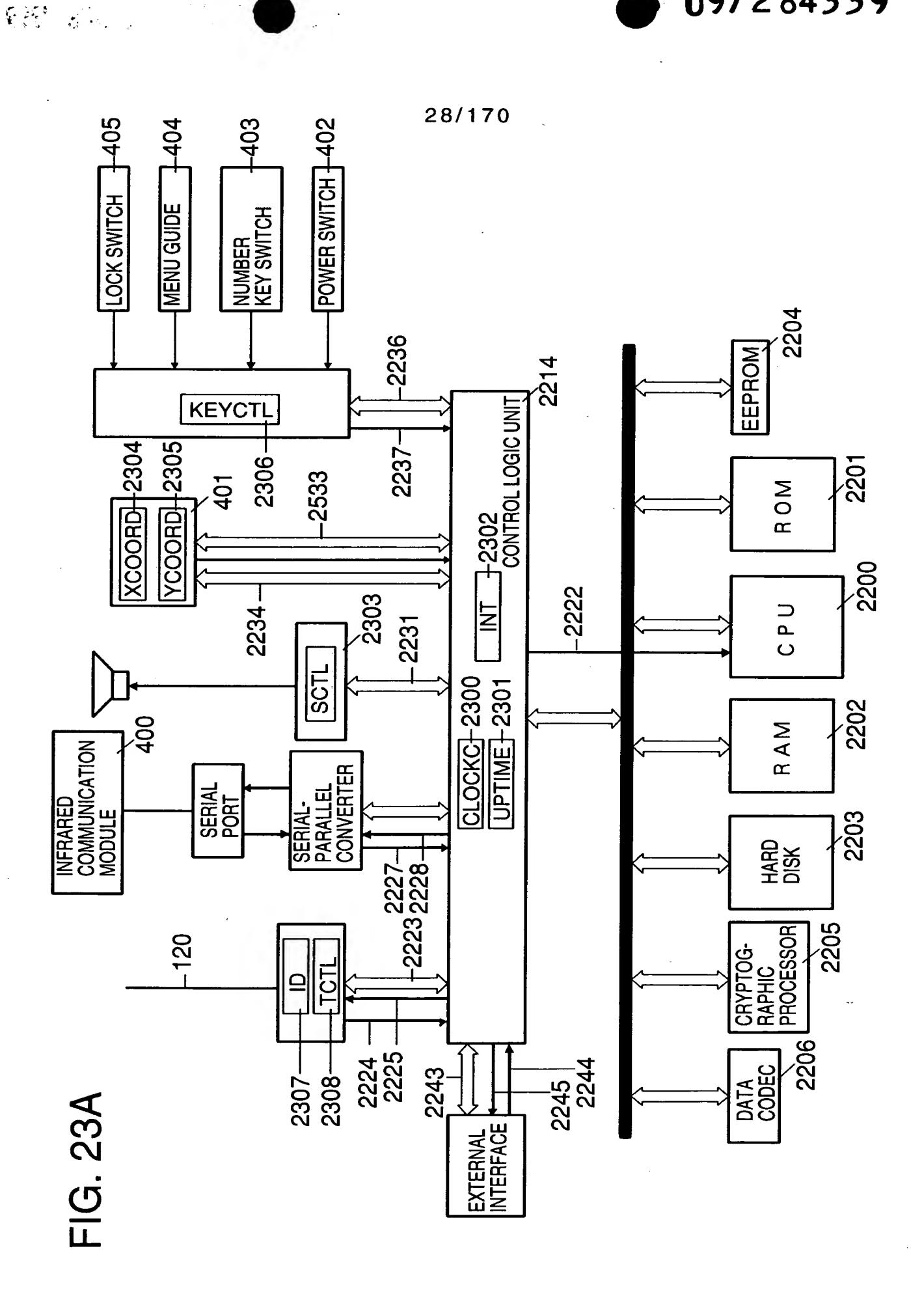


FIG. 23B

	29/170			
16	"LOCK" "POWER"	0	.0	
17		-	: 	
8	"MENU"	8	" 2 "	
6		က	# E #	
20		4	4	
21		5	2	
22		9	9	
23		7	"	
24	KEY Interrupt	8	# 8 #	
25	UPDATE EXTERNAL IF INTERRUPT	6	6	
- 56	UPDATE INTERRUPT	10	= *+	
27	DATA RECEPTION INTERRUPT	11	#	
28	INFRARED RECEPTION INTERRUPT	12	"F1"	
29	TOUCH PANEL INTERRUPT	13	"F 2"	
30	PHONE SPEECH DISPLAY	14	INT "F 4" "F 3"	
31	POWER DISPLAY	15	"F4"	
	N		Z Z	

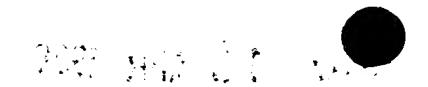


FIG. 24

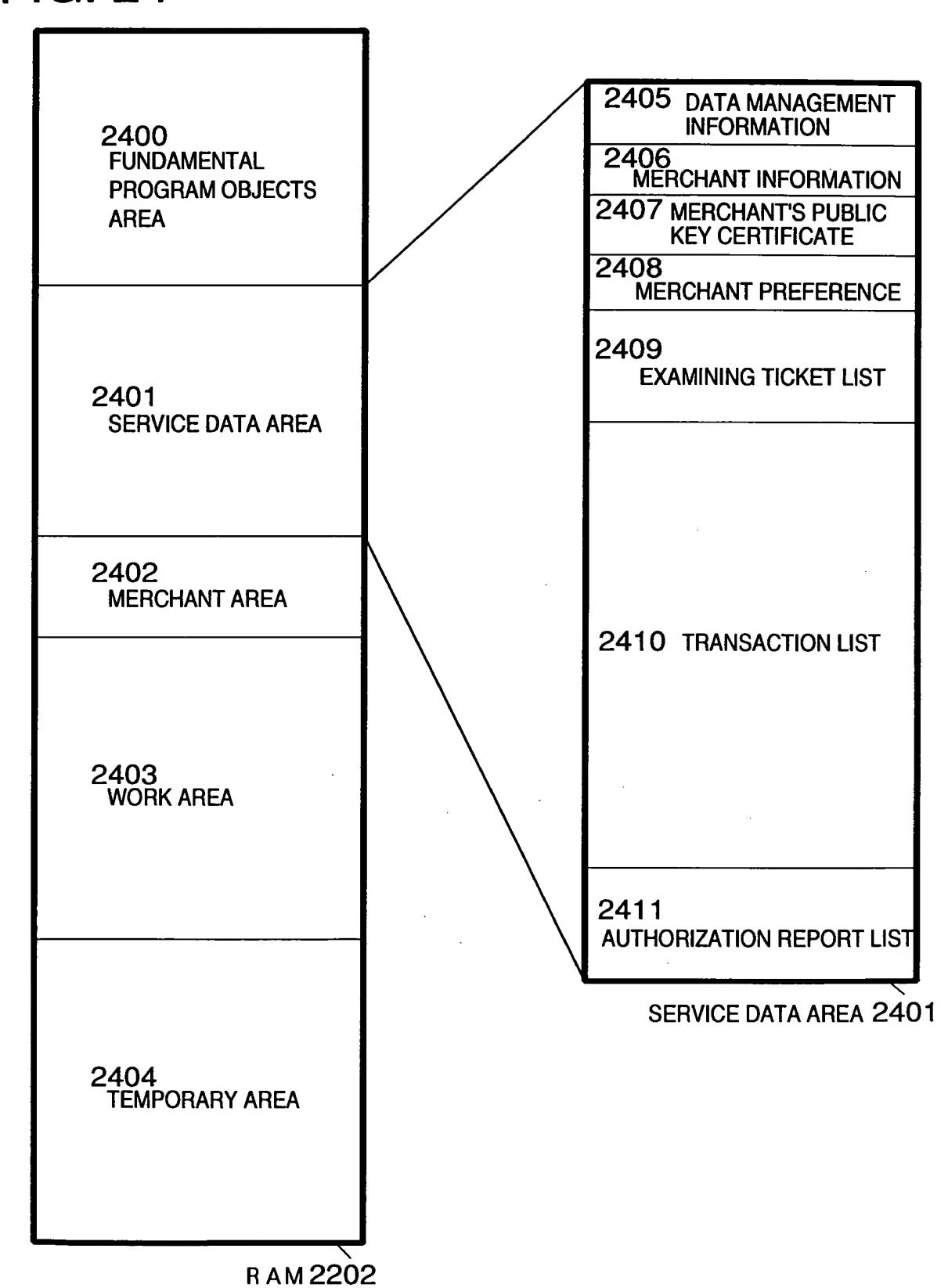
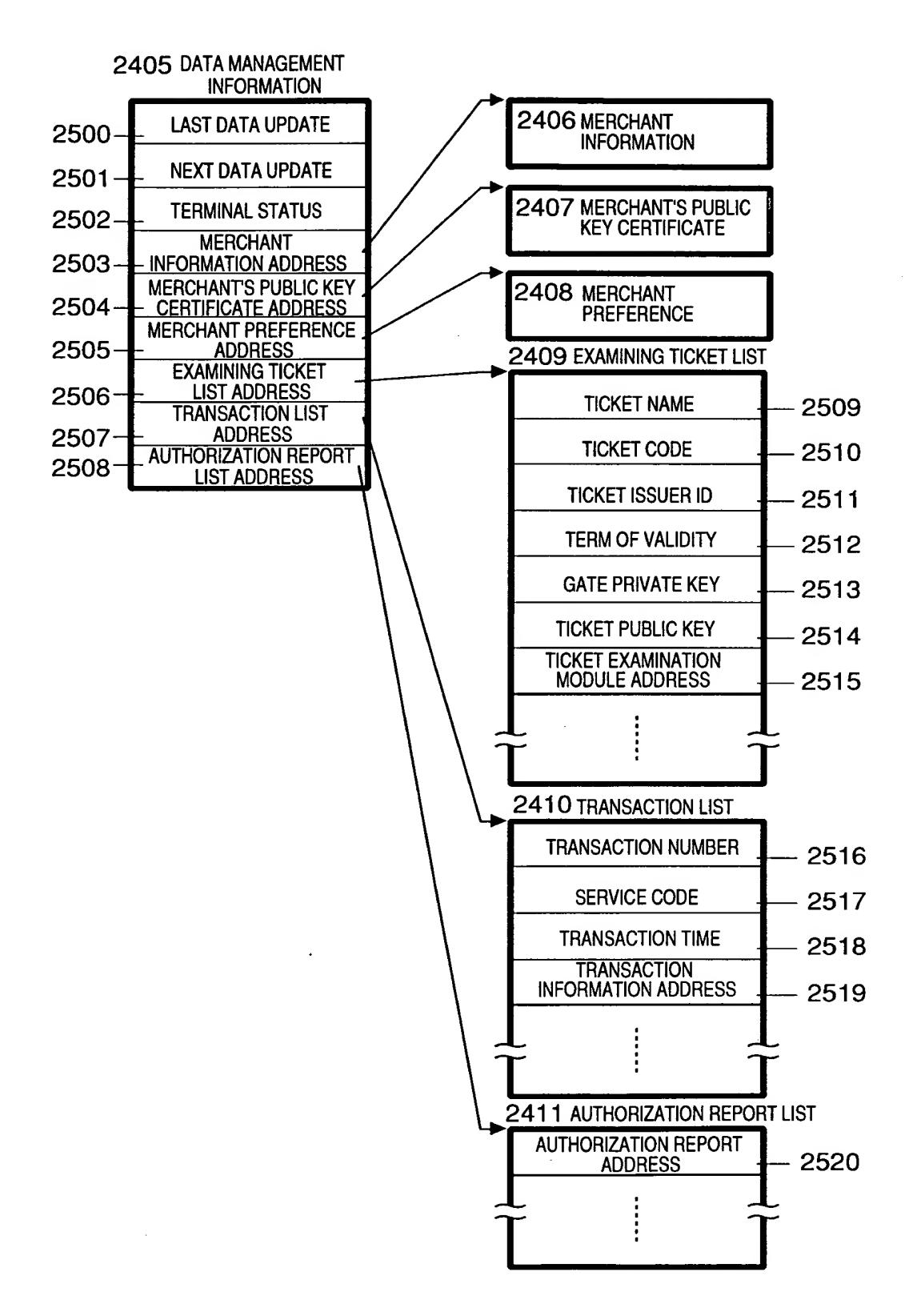
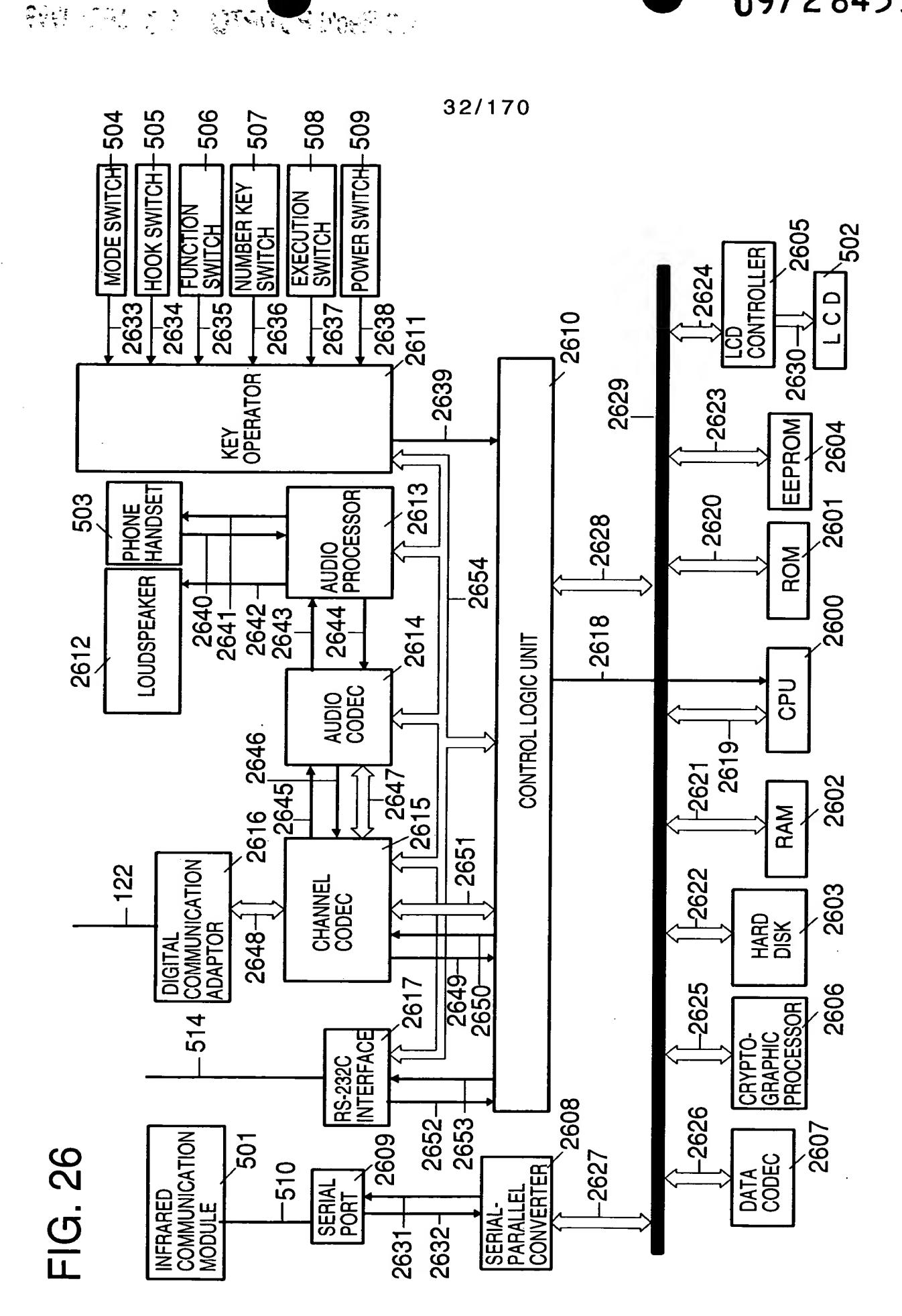


FIG. 25



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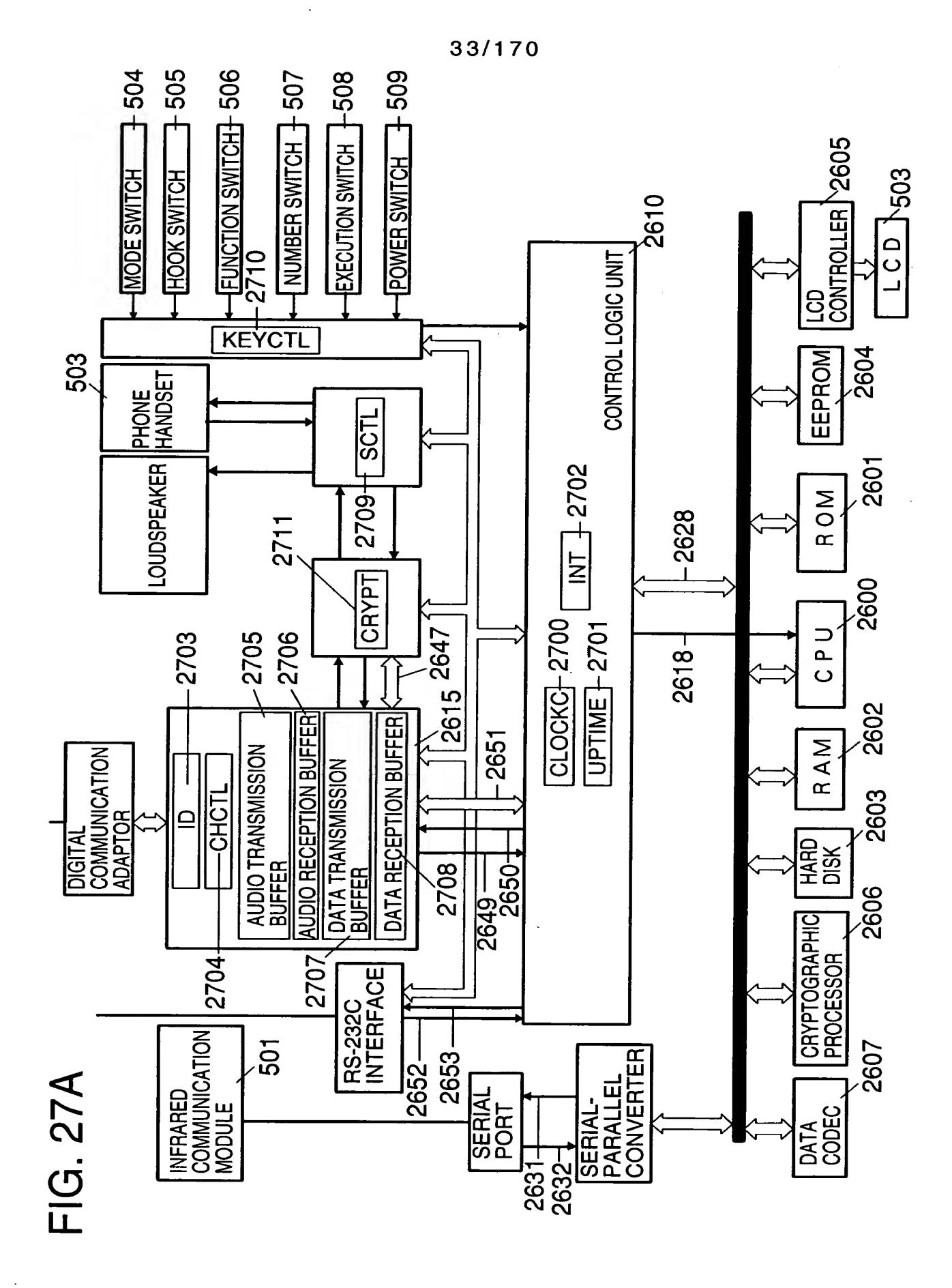


FIG. 27B

	34/170			
16	"POWER"	0	0	
17	'EXECUTE"	-	" "	
18	"MODE"	2	7	
19		ဧ	" E "	
20	"HOOK"	4	" 4 "	
2		5	., <u>G</u> .,	
22		9	9	
23		7	2	
24	KEY Interrupt	æ	# &> =	
25	External If Interrupt	6	" 6 "	
56	UPDATE Interrupt	10	: * :	
27	DATA RECEPTION INTERRUPT	11	#	
28	CALL DATA RECEPTION RECEPTI INTERRUPT INTERRU	12	# # 	
29		13	"F2"	
30	TELEPHONE DISPLAY	14	- 日 3	
31	POWER DISPLAY	15	INT " F 4 "	
·	L L		Z	

FIG. 28

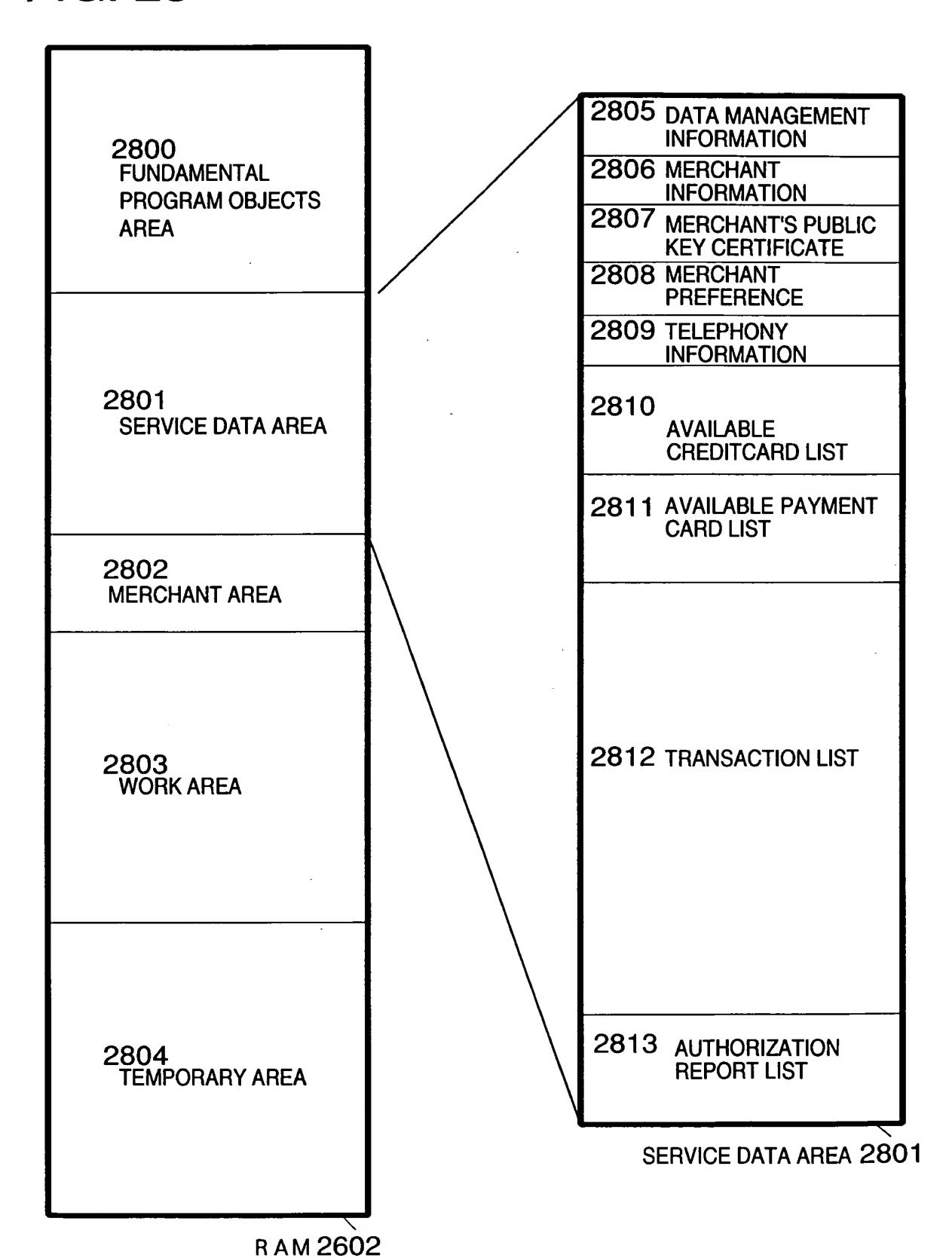
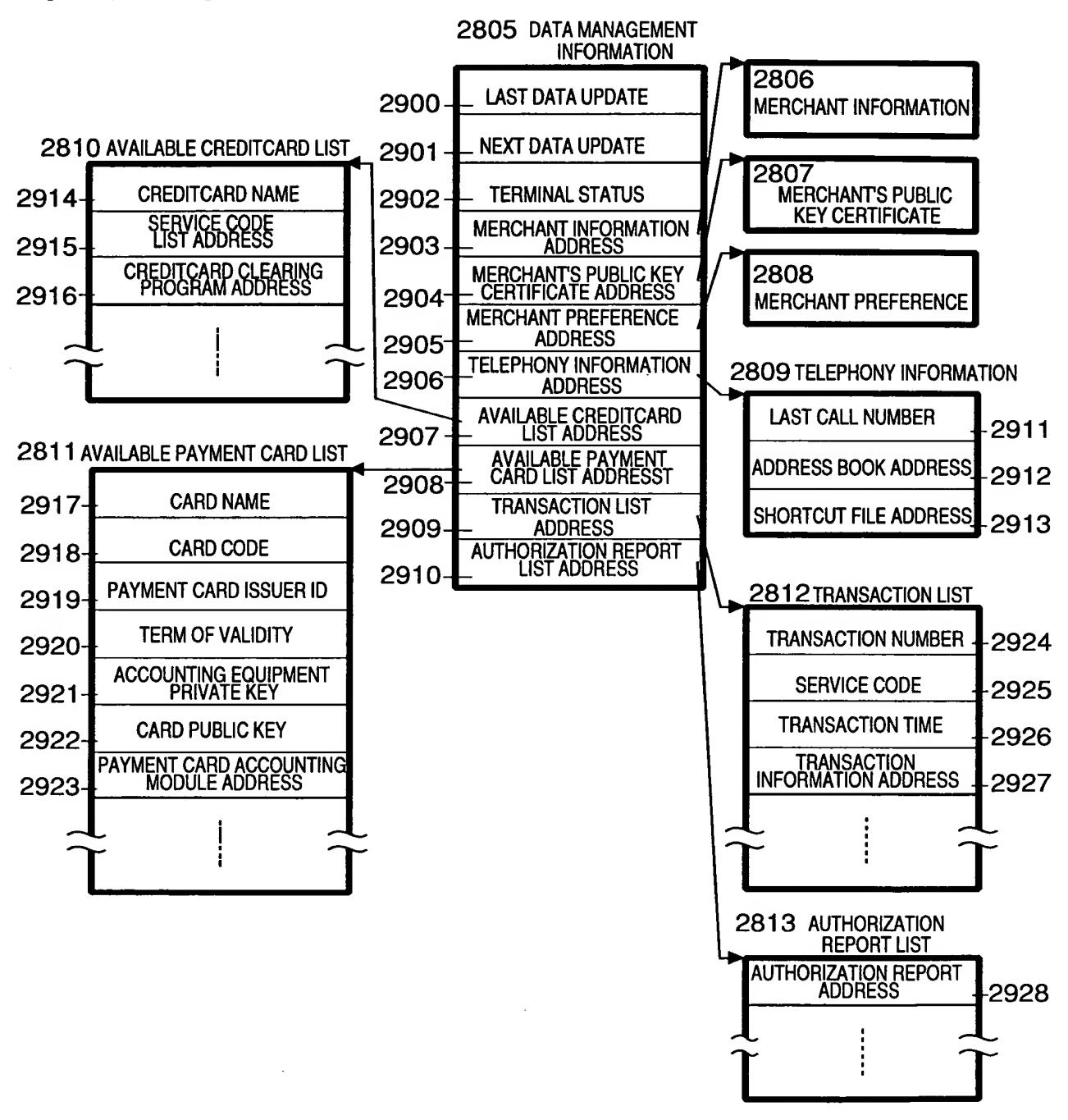
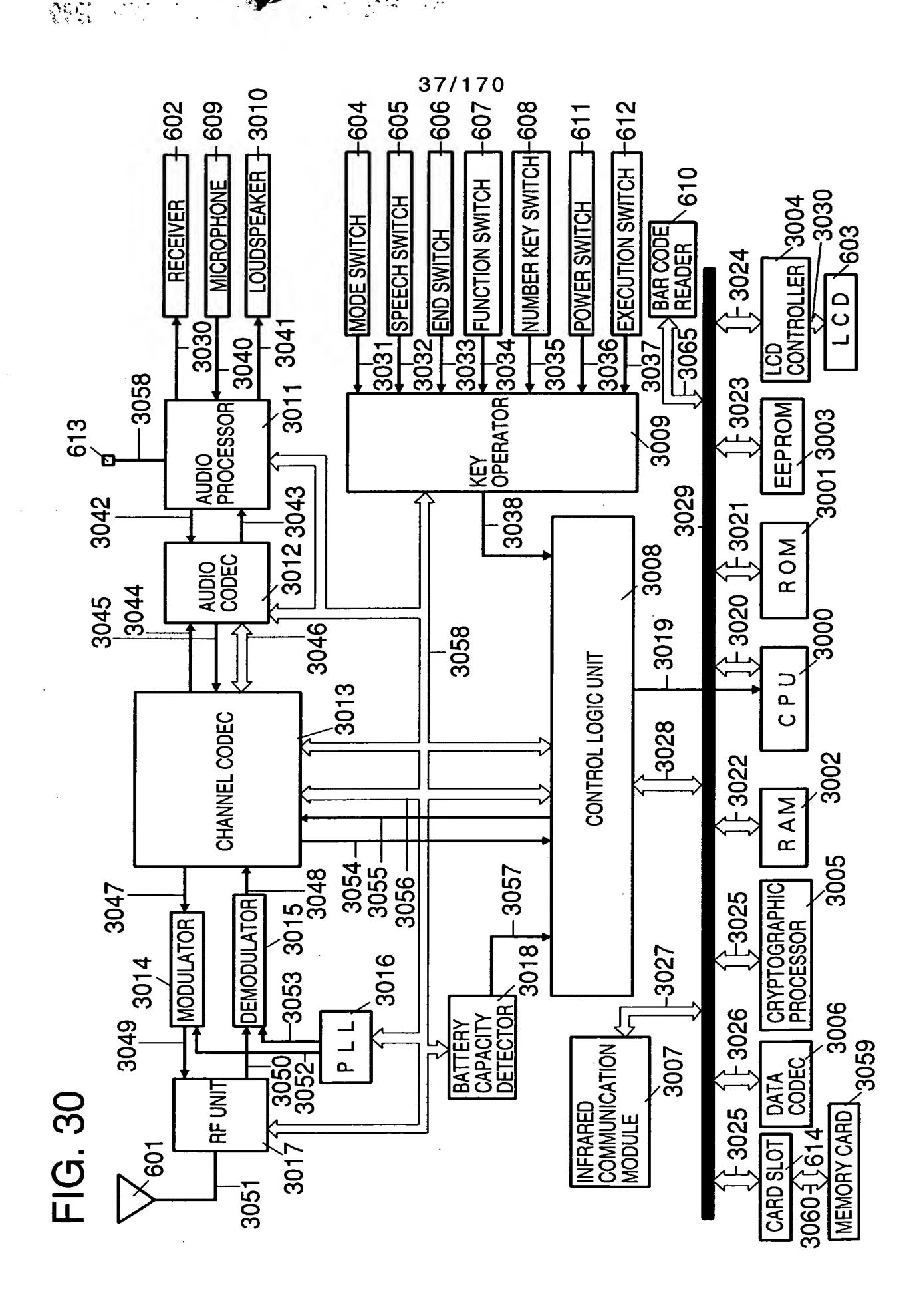


FIG. 29





ACCOUNTS TO THE

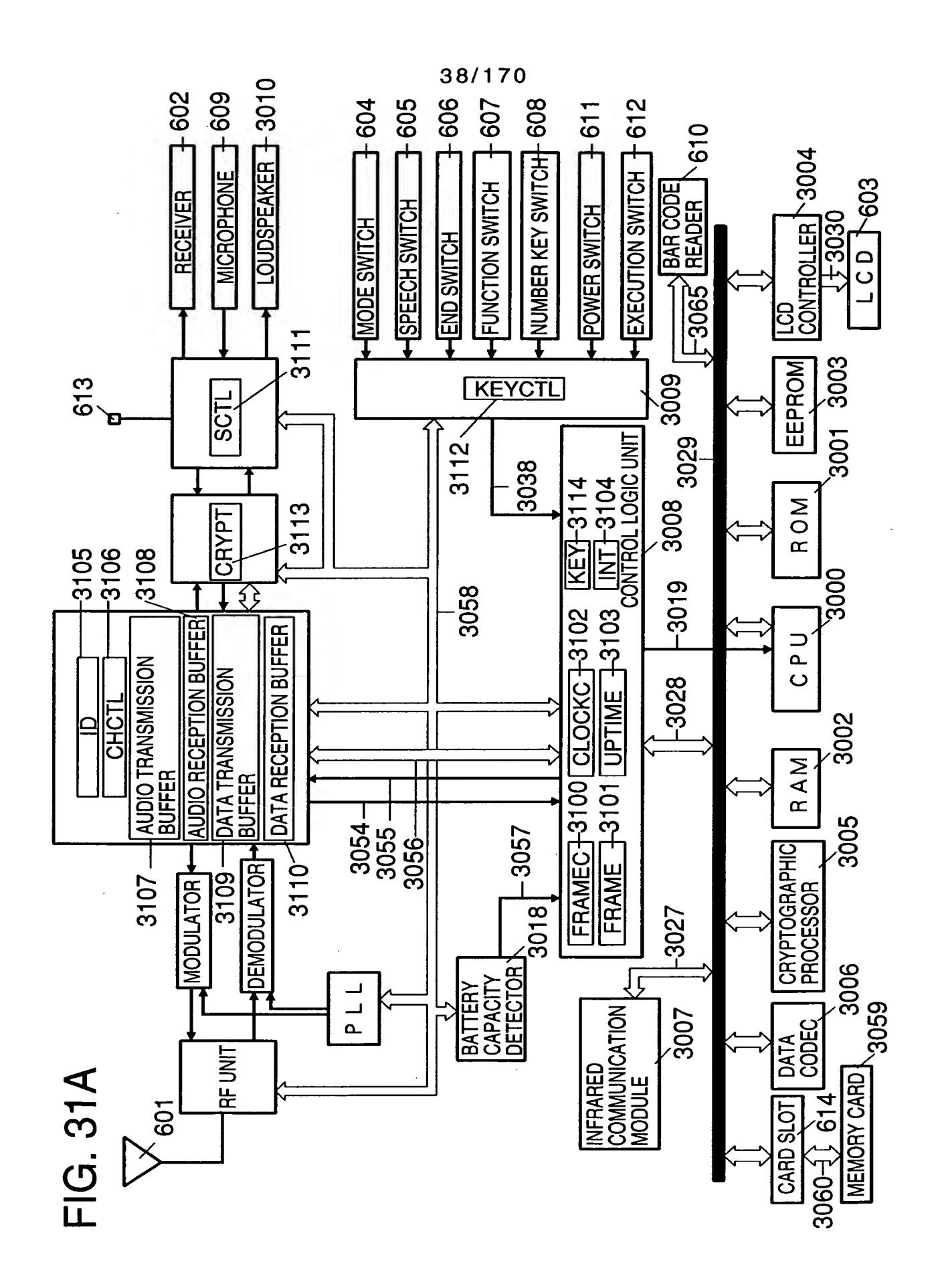


FIG. 31B

	9	
	17	
	2	
-	0	
	20	
	21	
	22	
	23	
	24	KEY NTERRUPT
	25	RECEPTION RECEPTION INTERRUPT INTERRUPT INTERRUPT
	56	UPDATE Interrupt
	27	DATA RECEPTION INTERRUPT
	. 58	CALL RECEPTION INTERRUPT
	29	FRAME
	31B	POWER WIRELESS FRAME RECEPTION RECEPTION UPDATE DISPLAY DISPLAY DISPLAY INTERRUPT INTERRUPT INTERRUPT
	<u> </u>	POWER DISPLAY
	LL·	N N

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FIG. 31C

	<u>~</u>	} 1	
16	"POWER	0	0
17	"MODE" "EXECUTE" "POWER"	-	# =
18	"MODE"	2	" 2 "
6	'SPEECH"	3	= m =
20	"END"	4	. 4
2		5	. 5
22		9	 9
23		2	Z
24		∞	8
25	"SUM"	6	6
26	# #	10	= *
27	= • •	11	#
28	× ×	12	# F 1
29	E I	13	"F2"
30	+	4	# E H
31	# # # # # # # # # #	15	KEY "F 4"
	ΚEΥ	_	KEY



FIG. 32

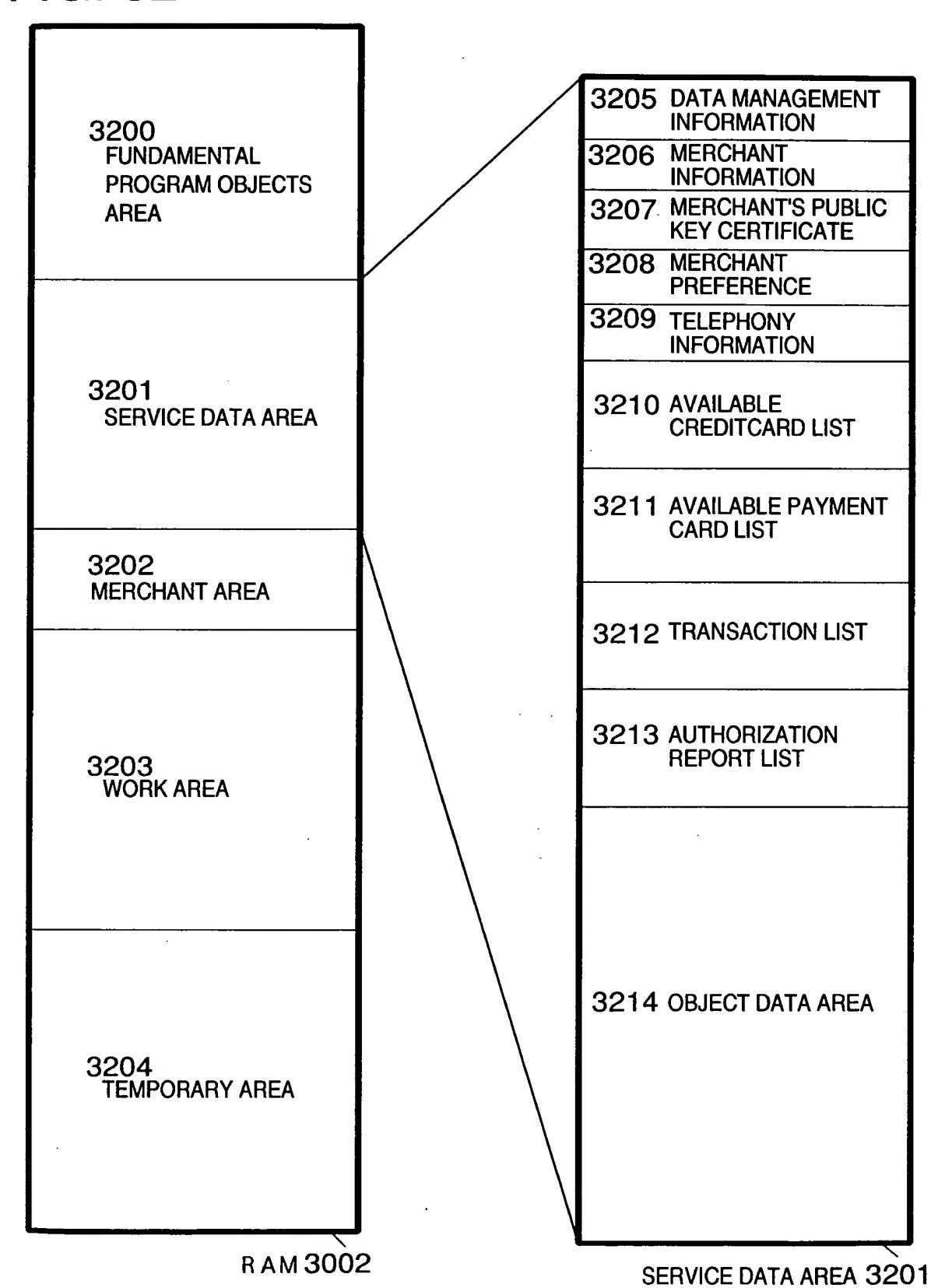
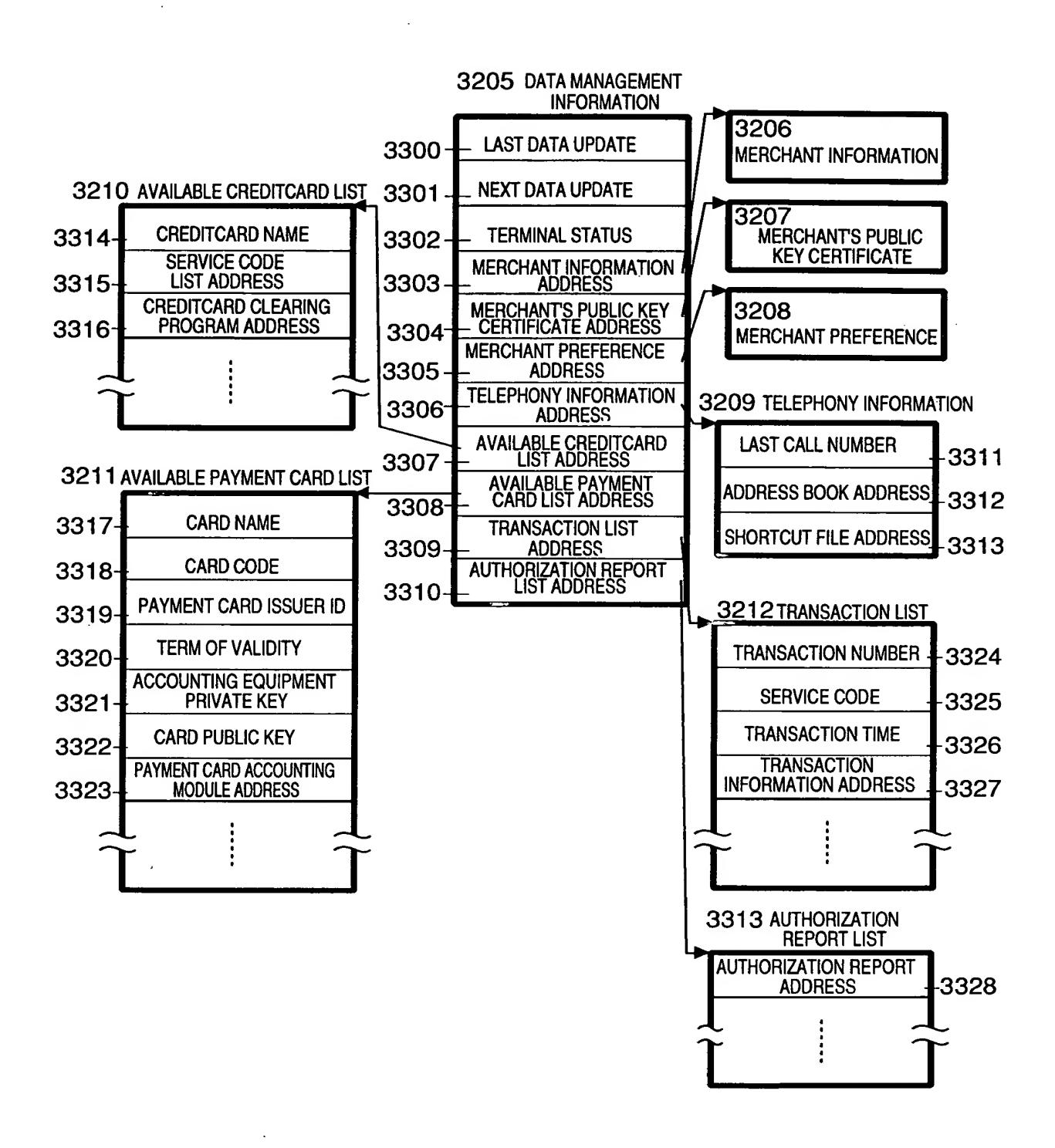
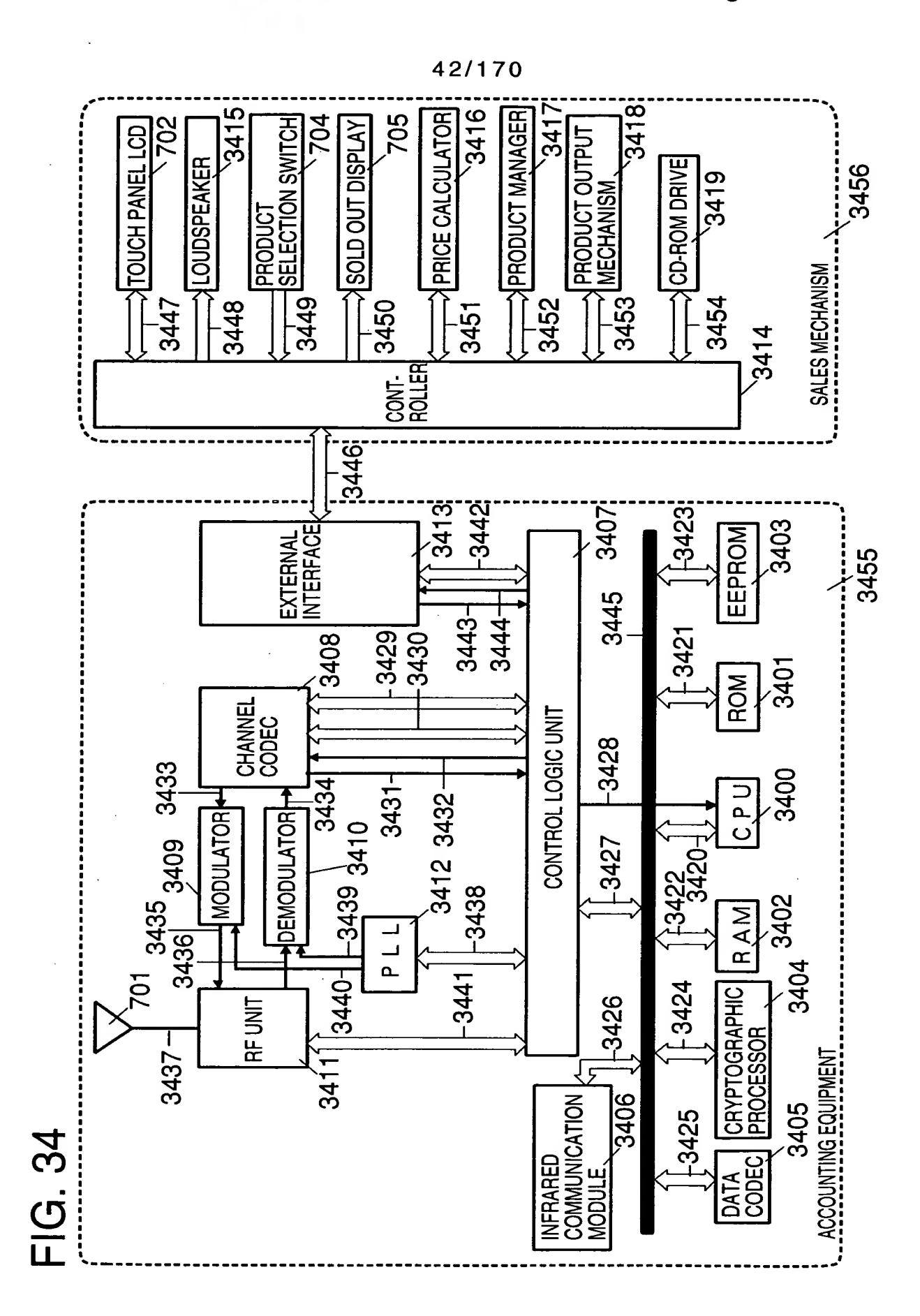


FIG. 33





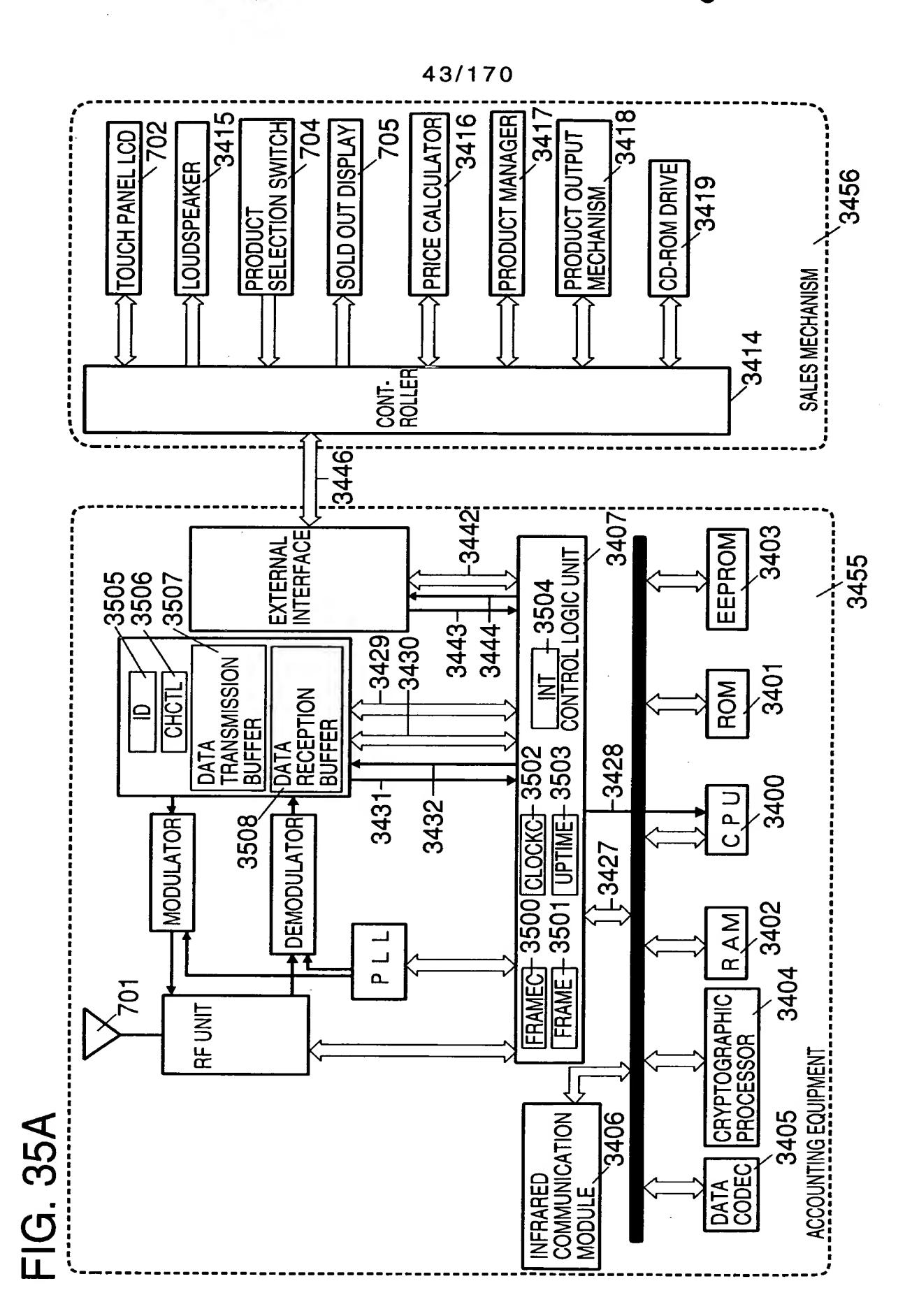


FIG. 35B

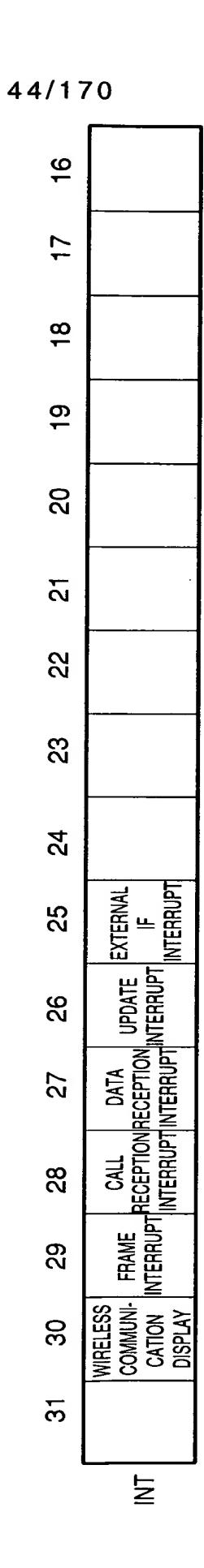
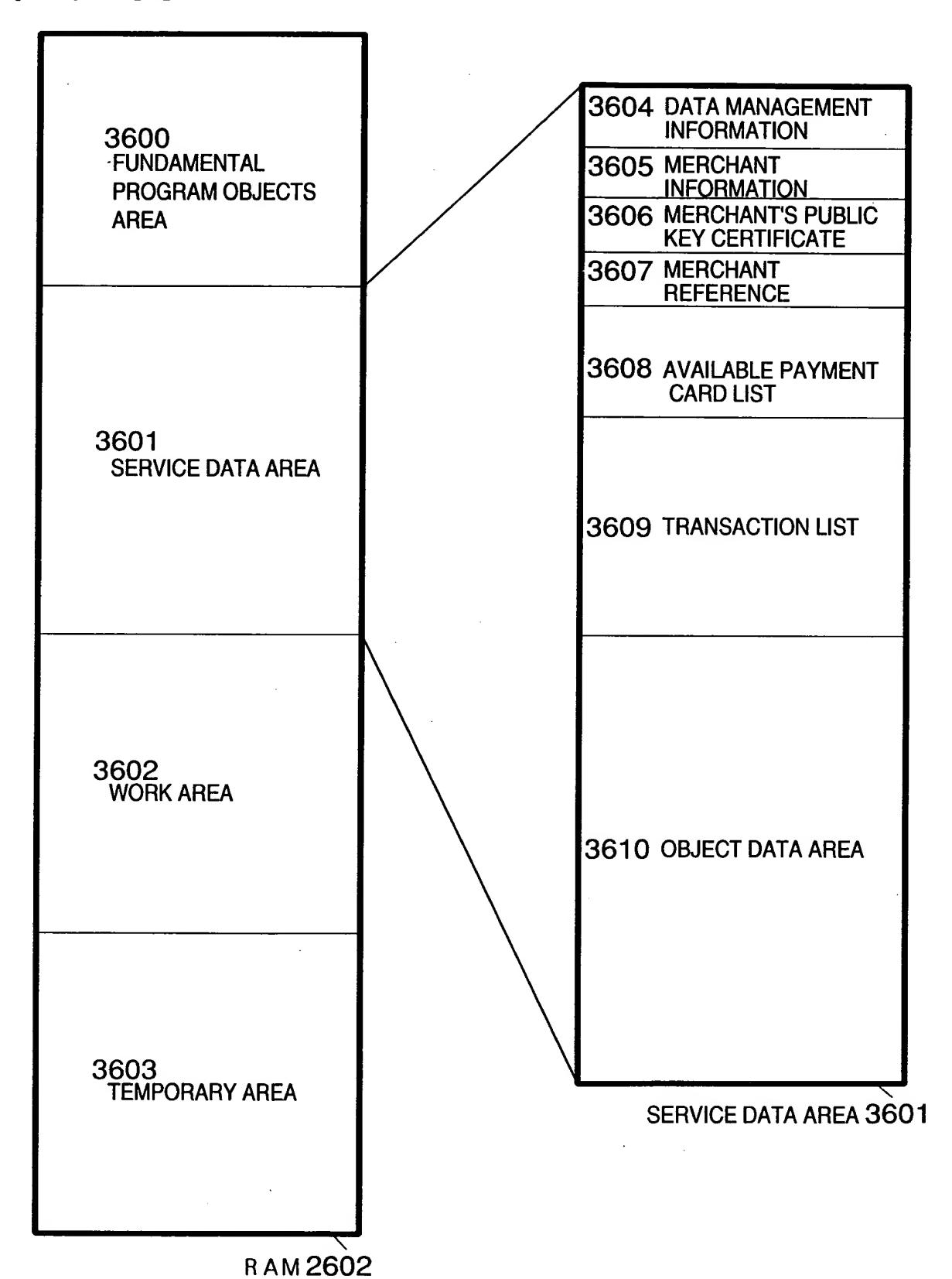




FIG. 36



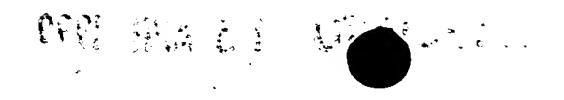


FIG. 37

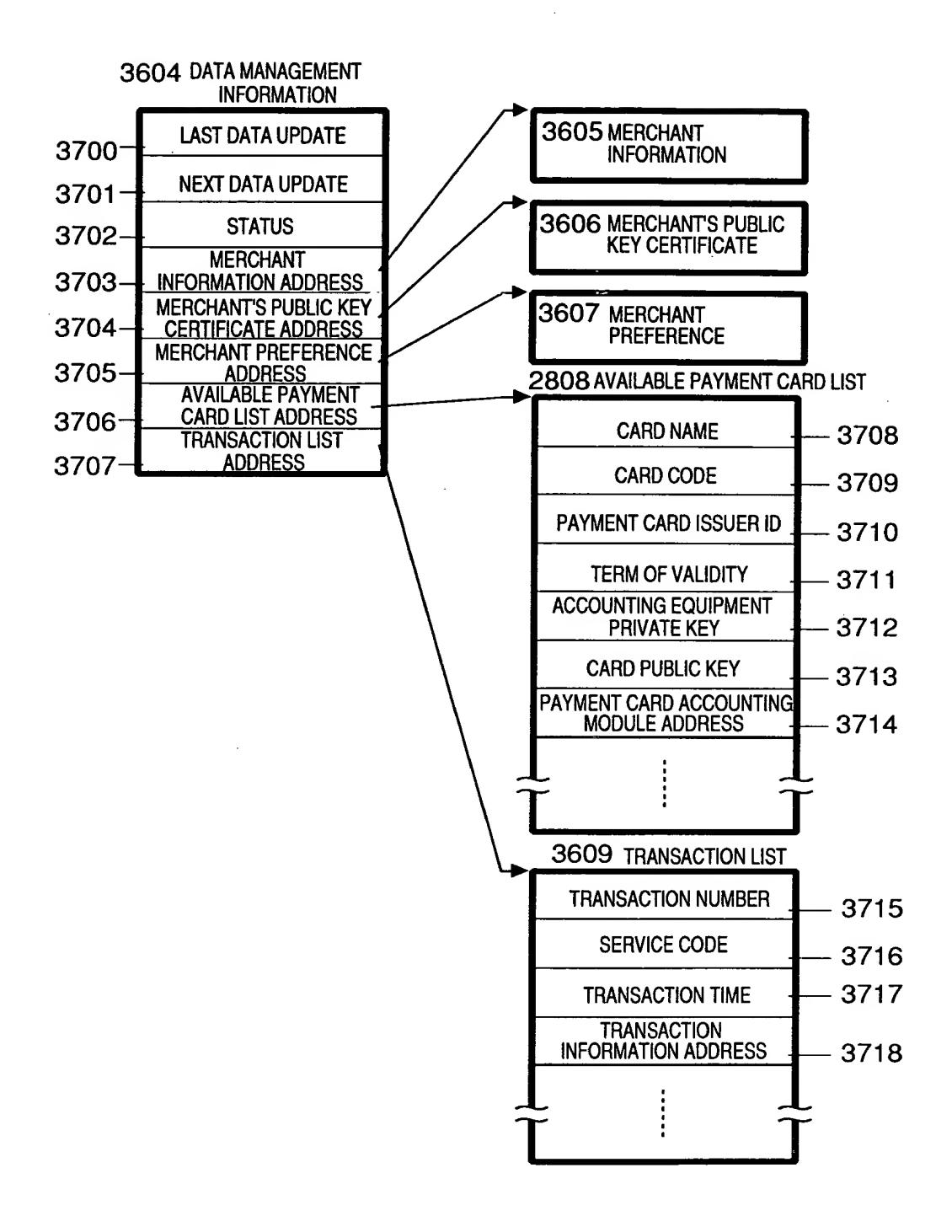


FIG. 38

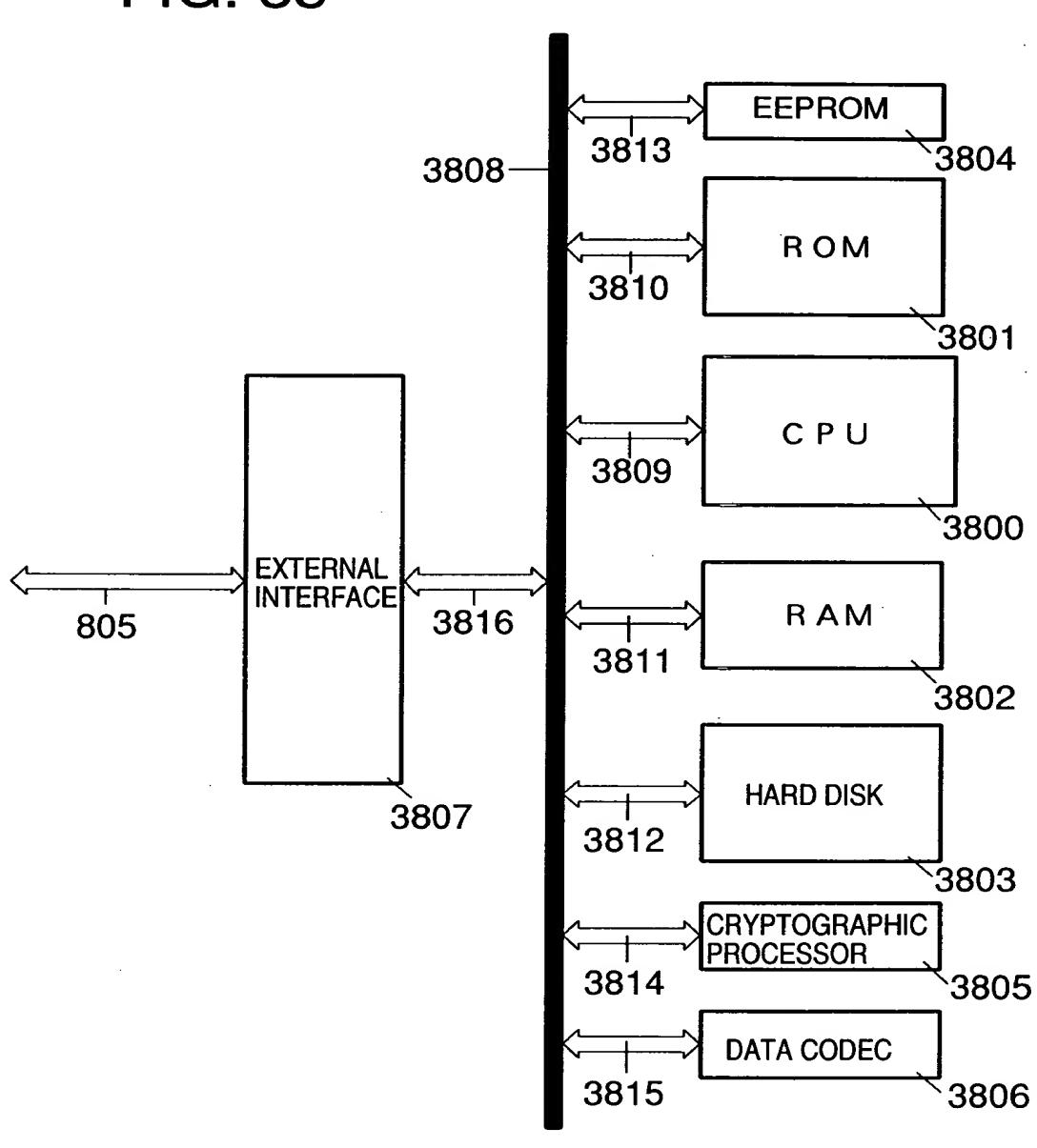


FIG. 39

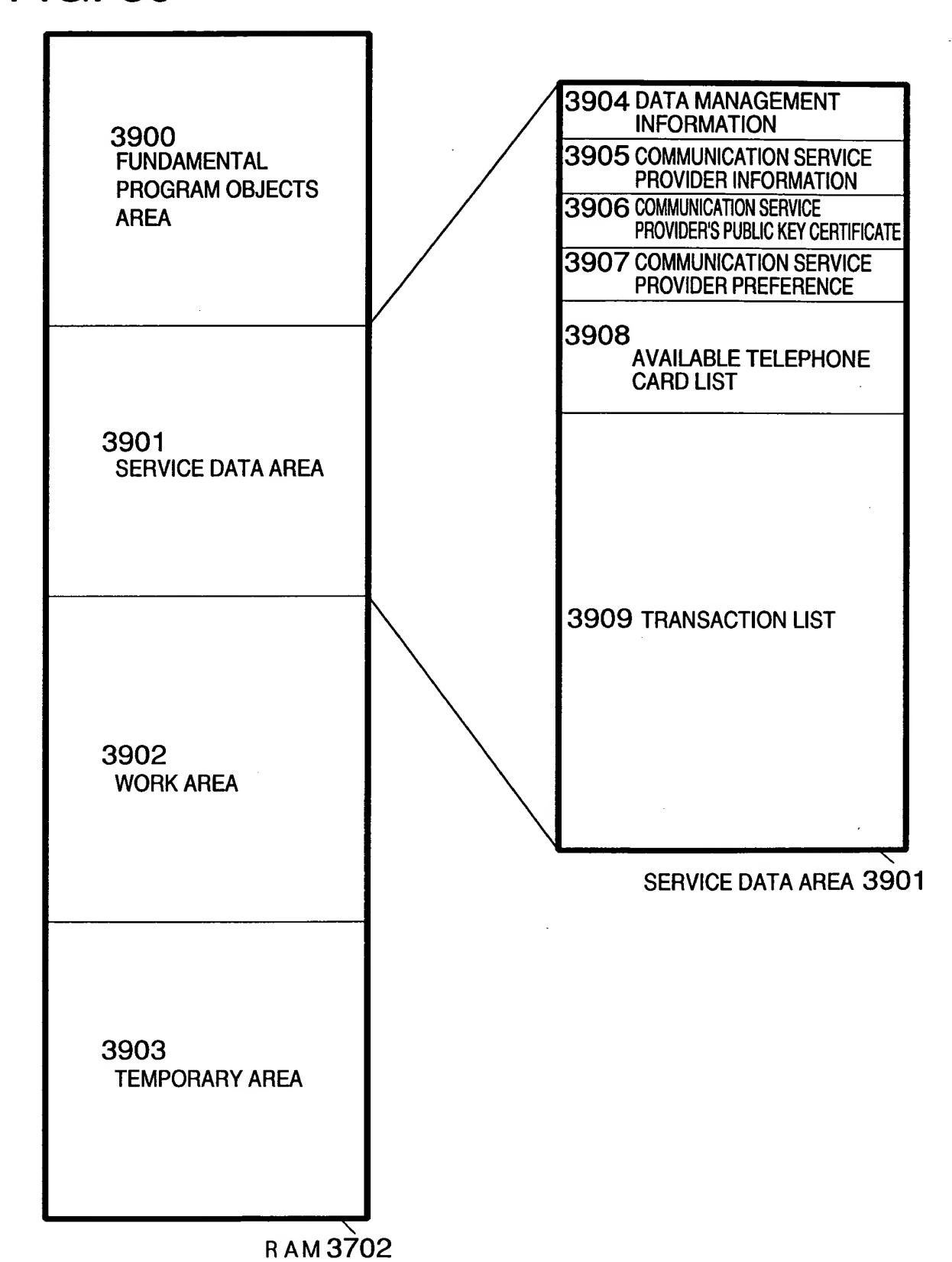
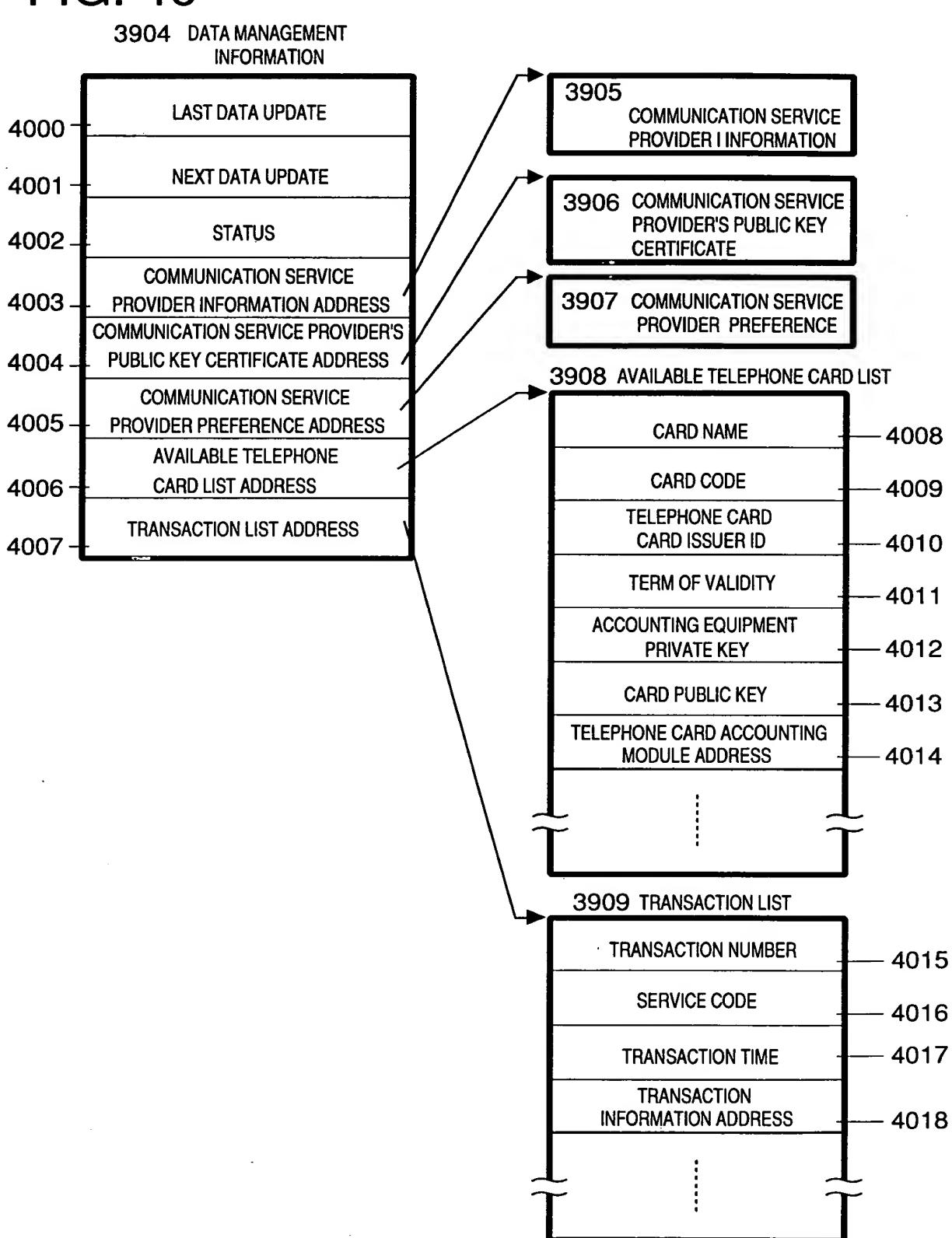


FIG. 40



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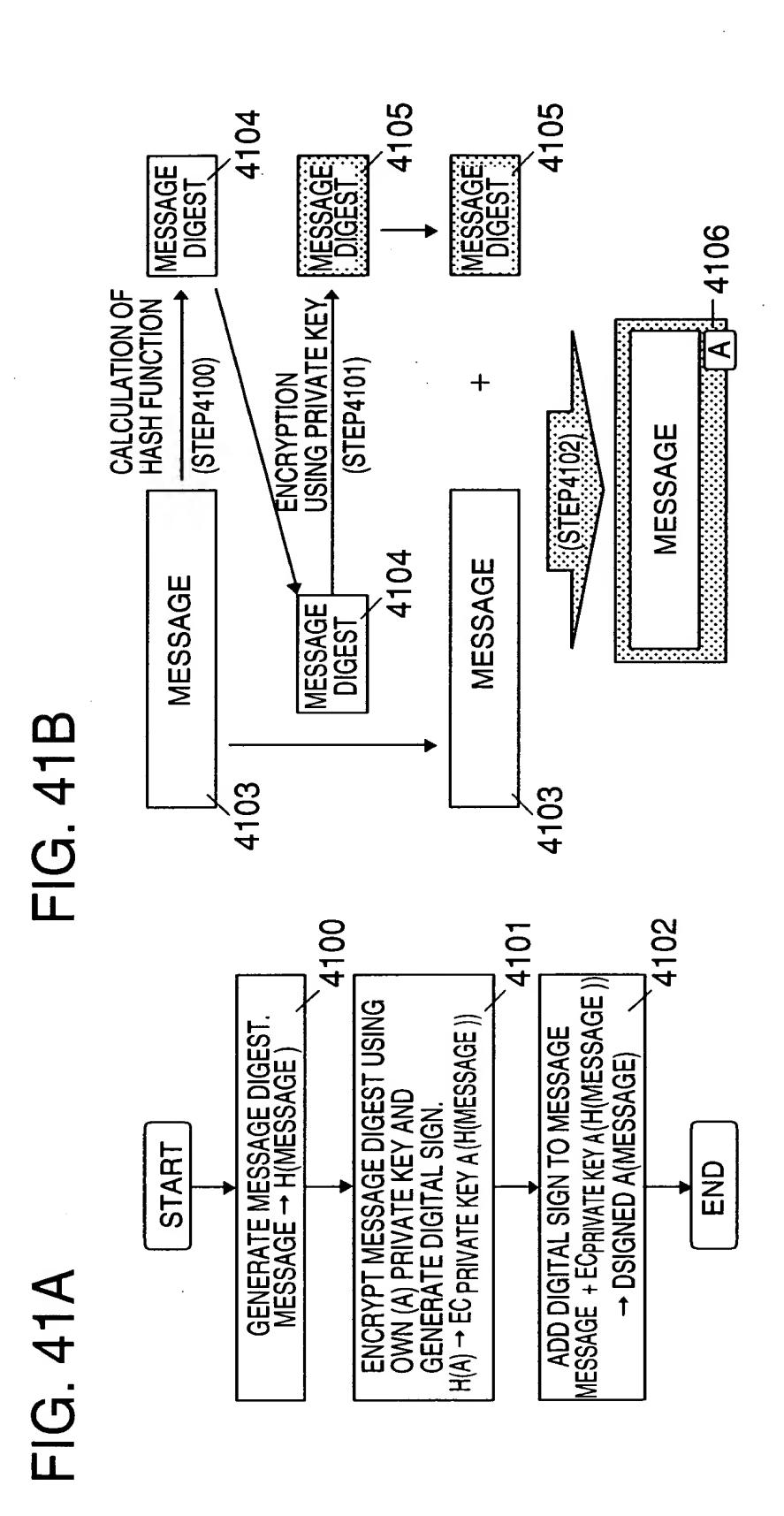


FIG. 42A

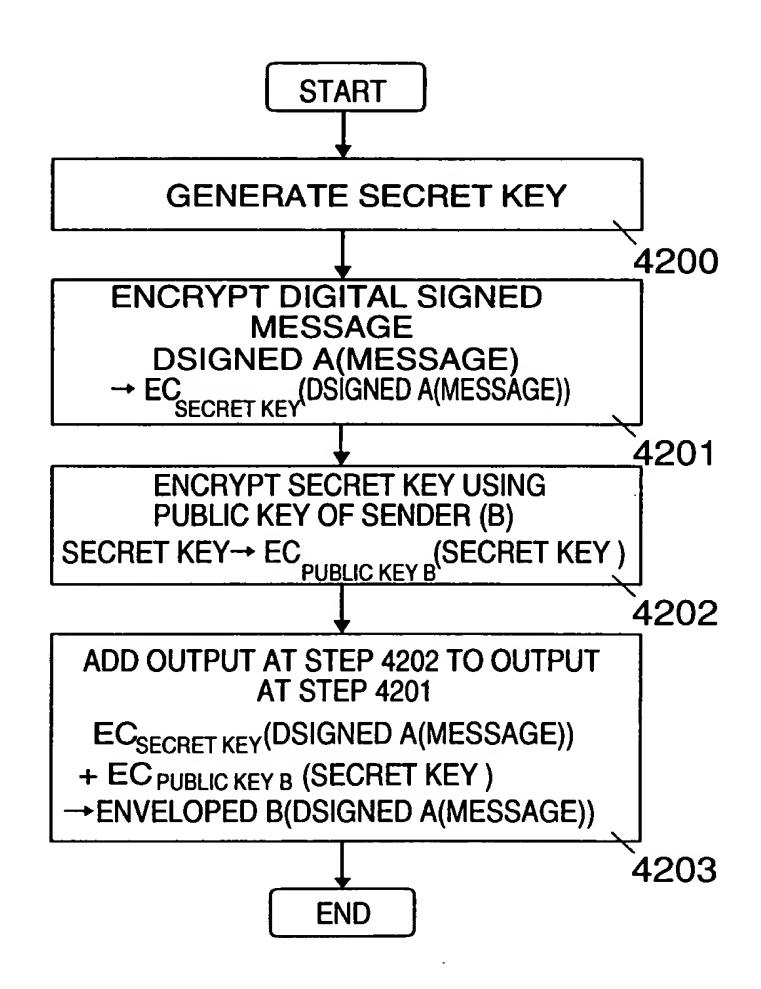


FIG. 42B

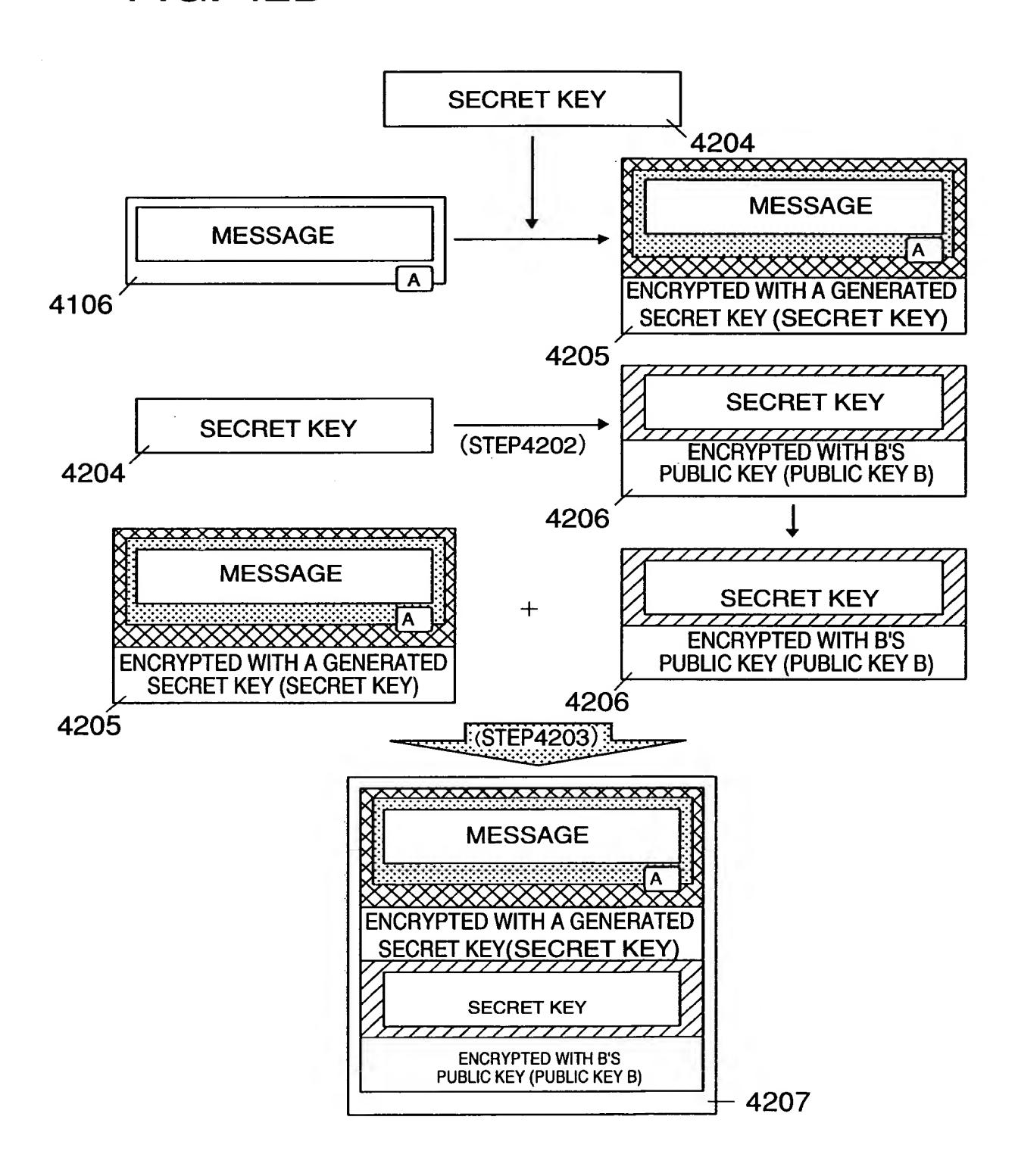


FIG. 43A

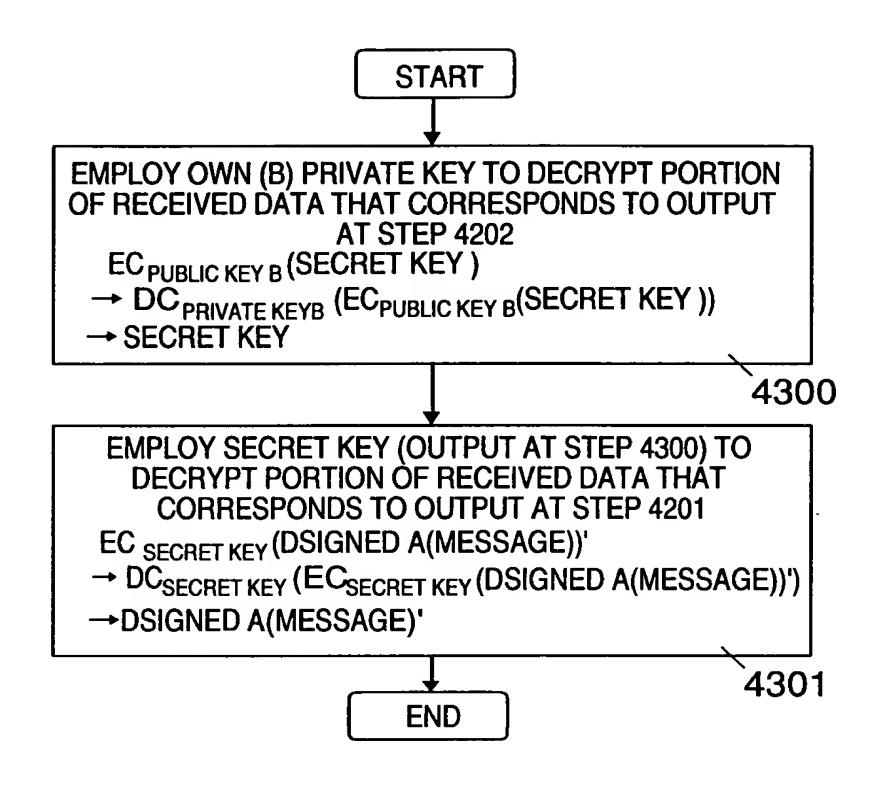


FIG. 43B

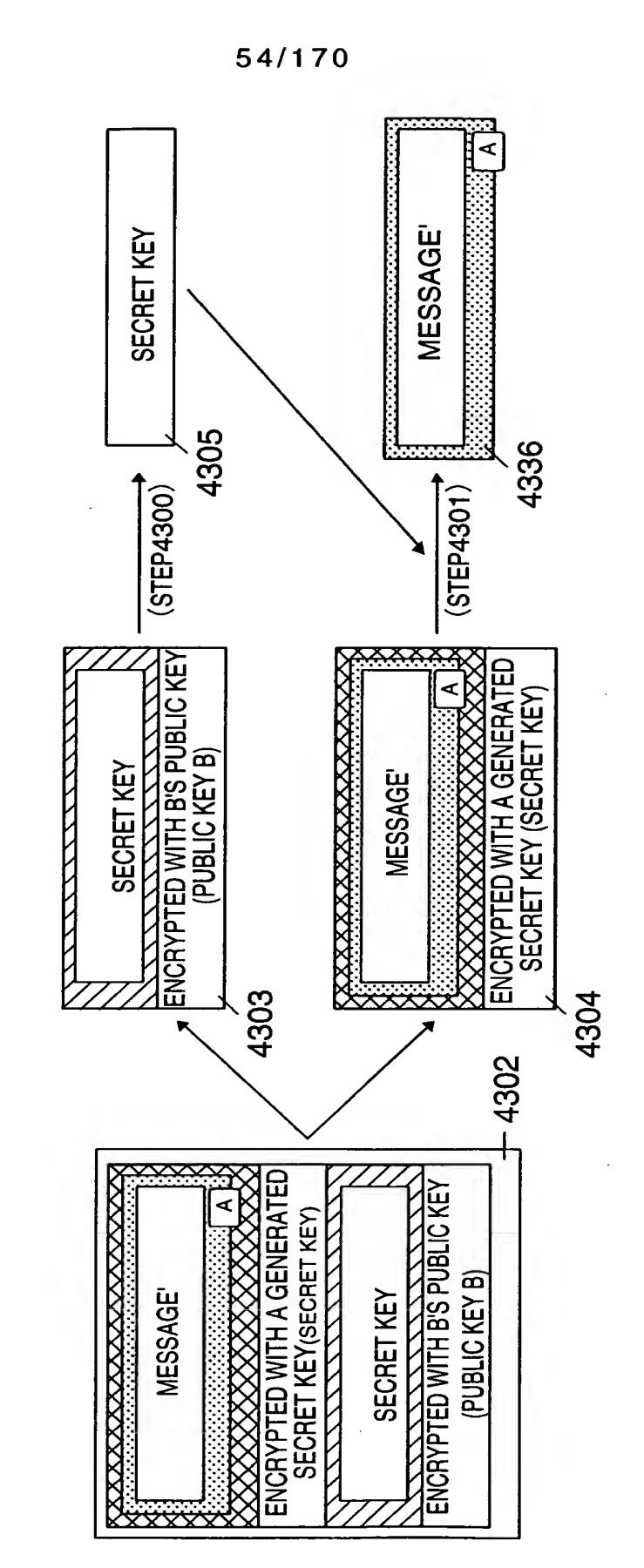


FIG. 44A

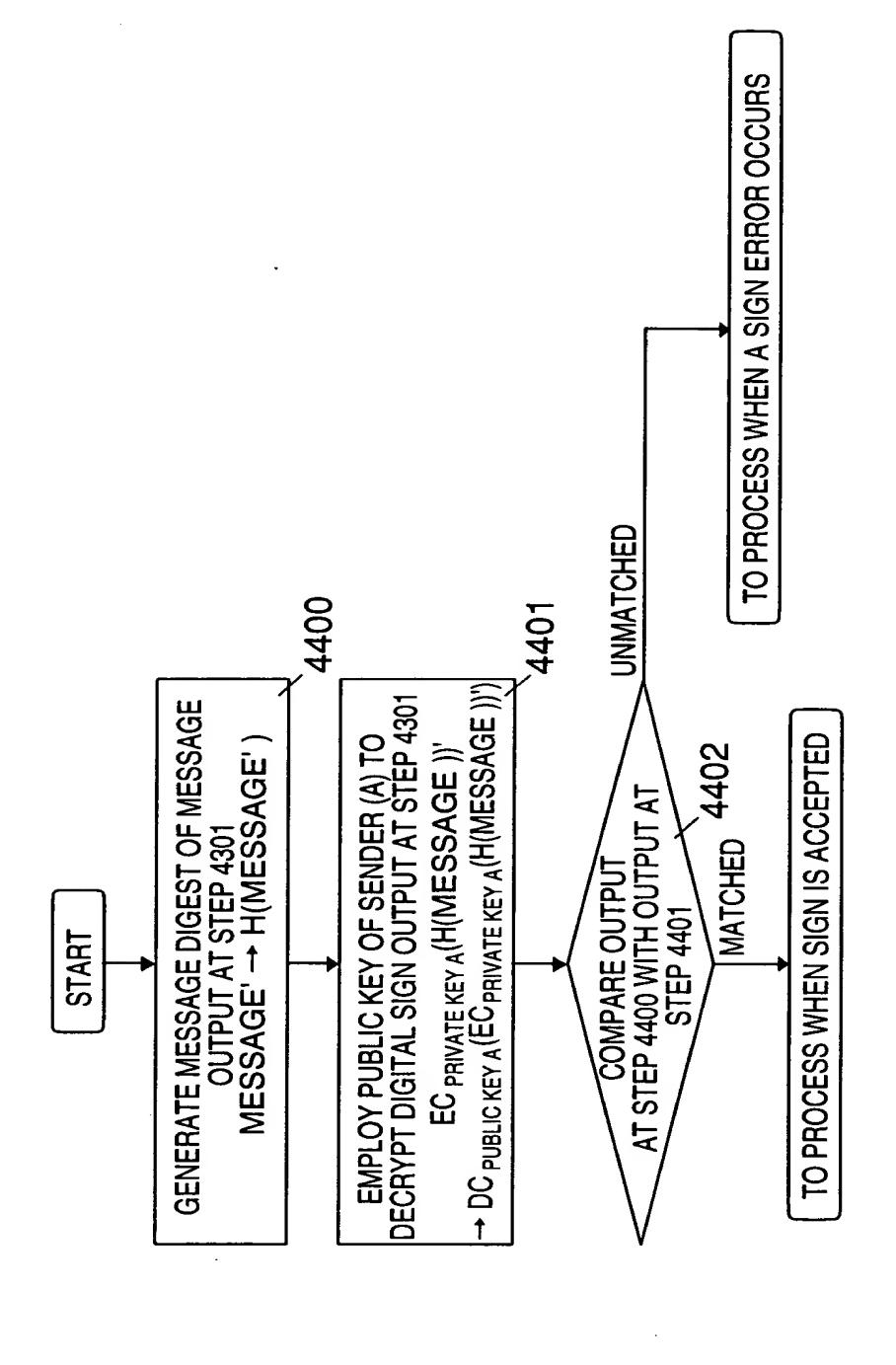
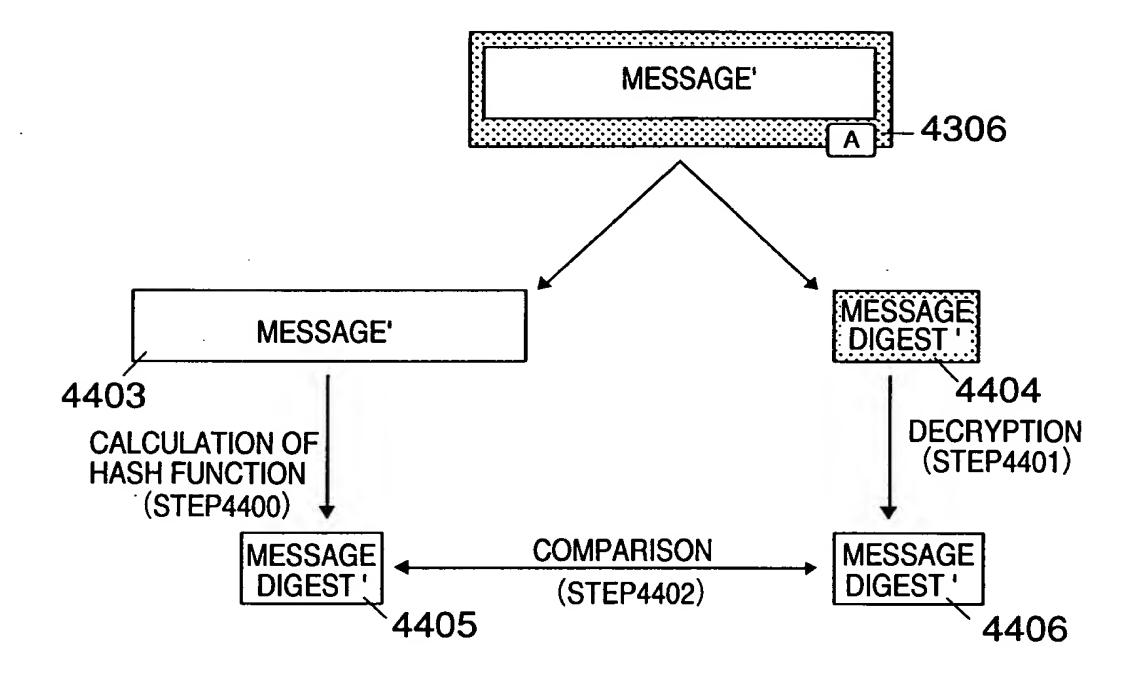
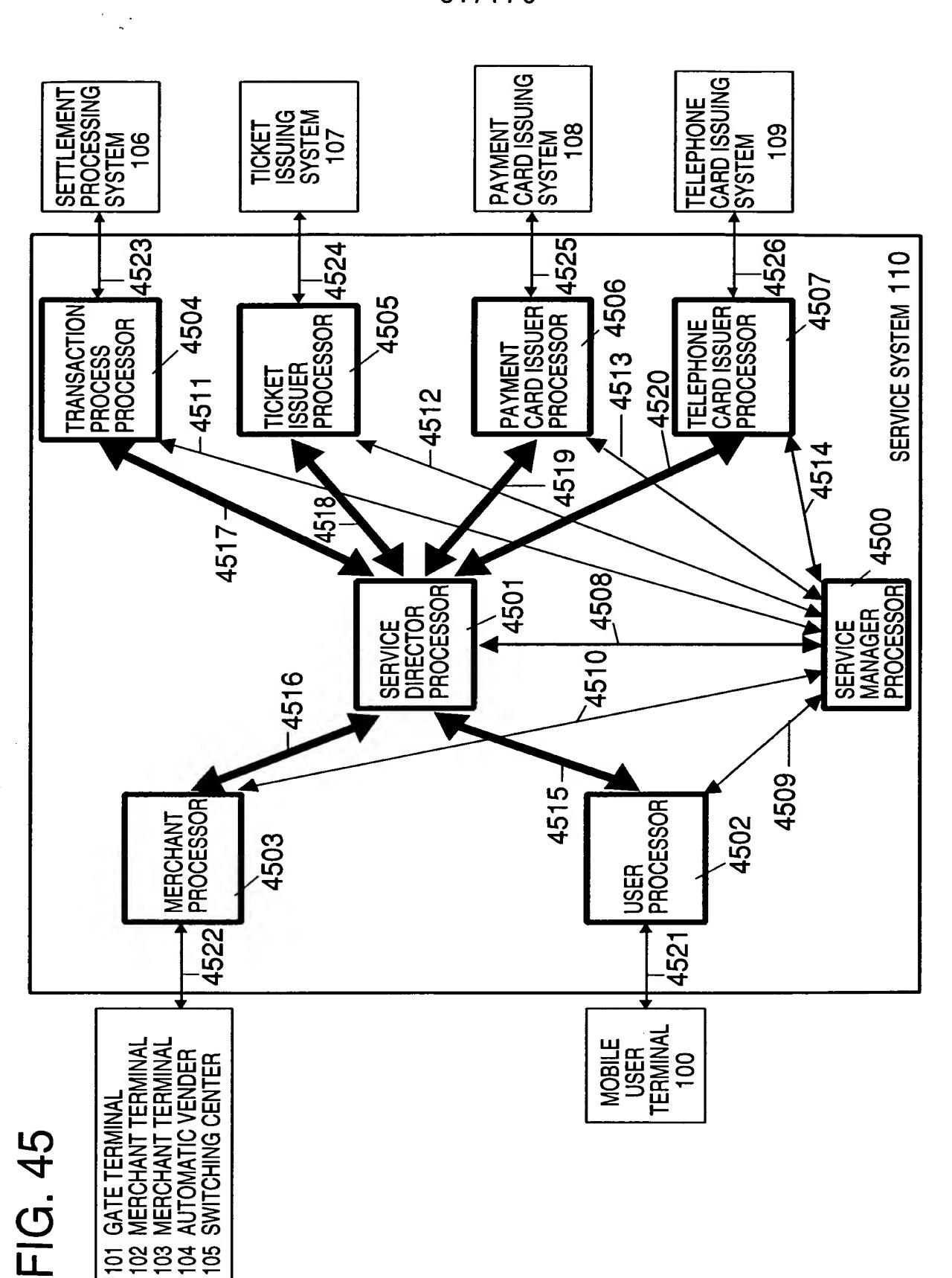


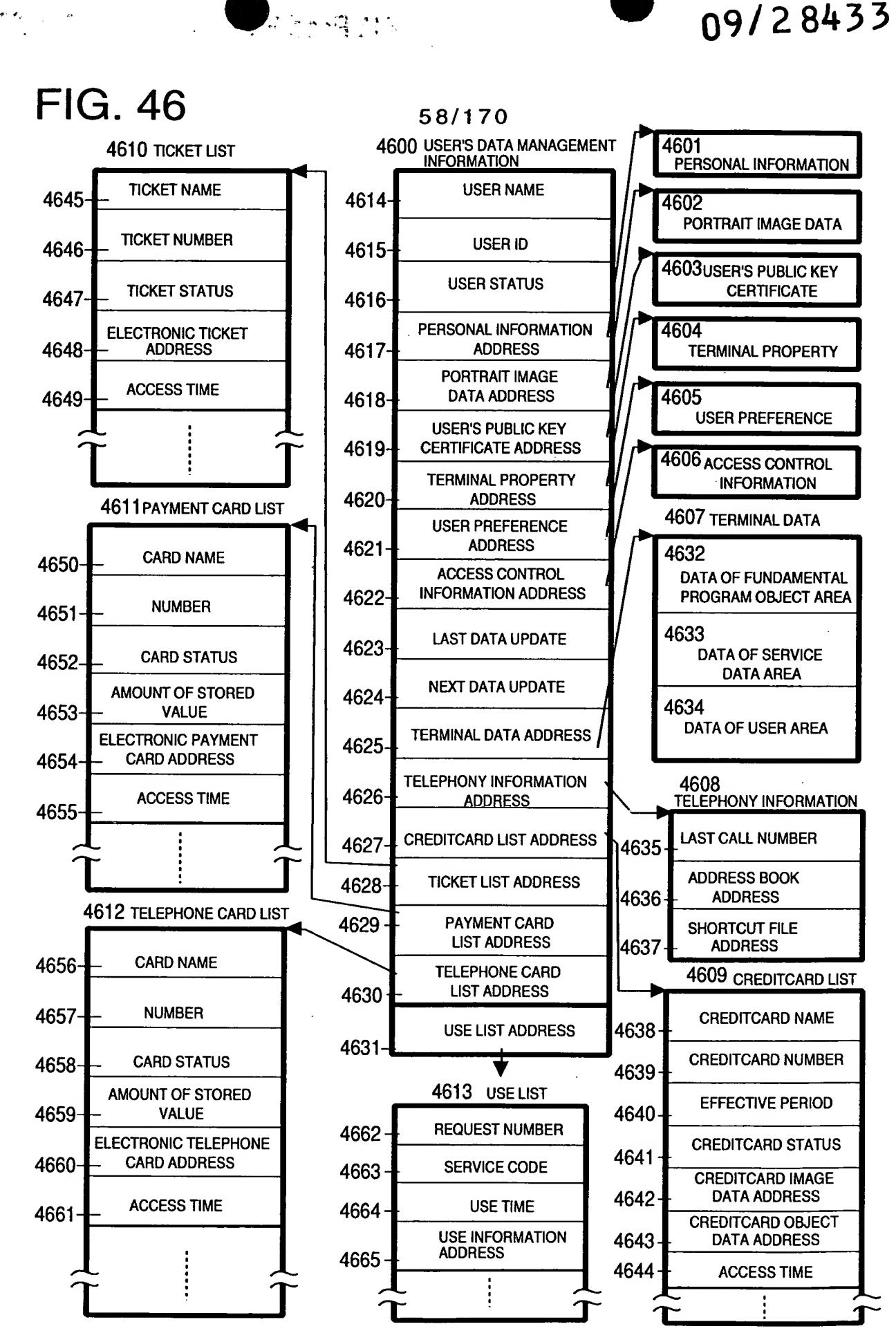
FIG. 44B



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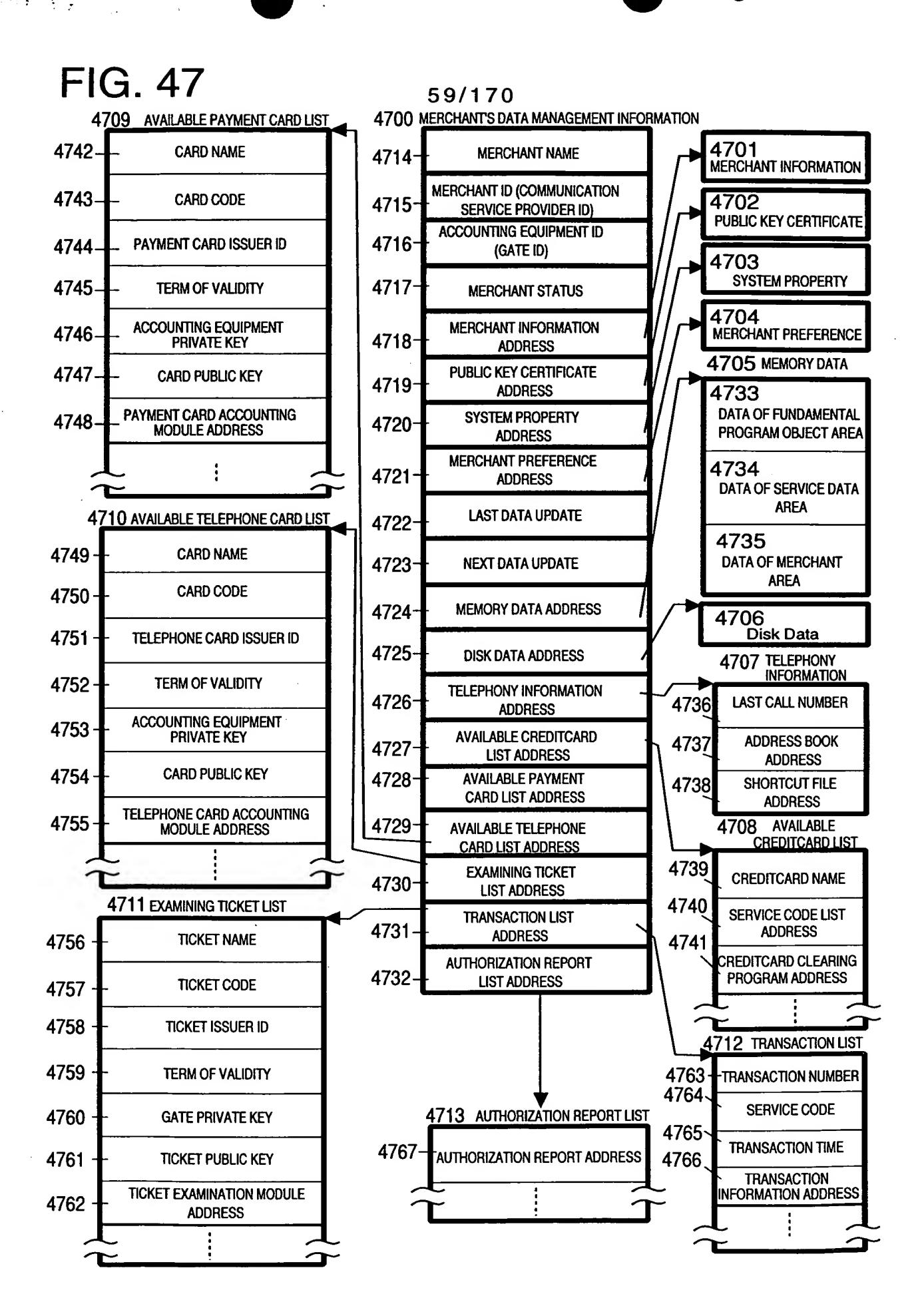
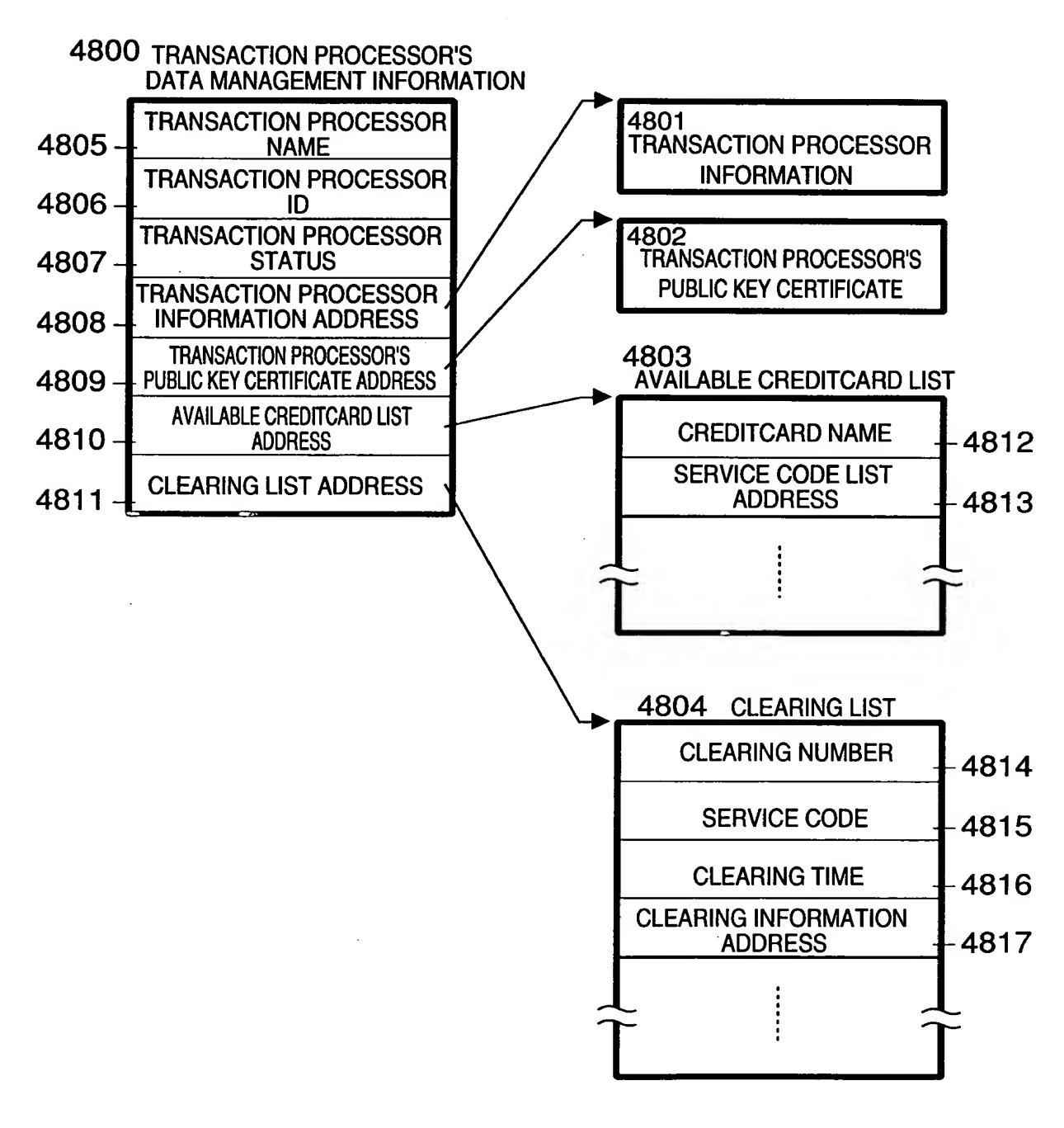
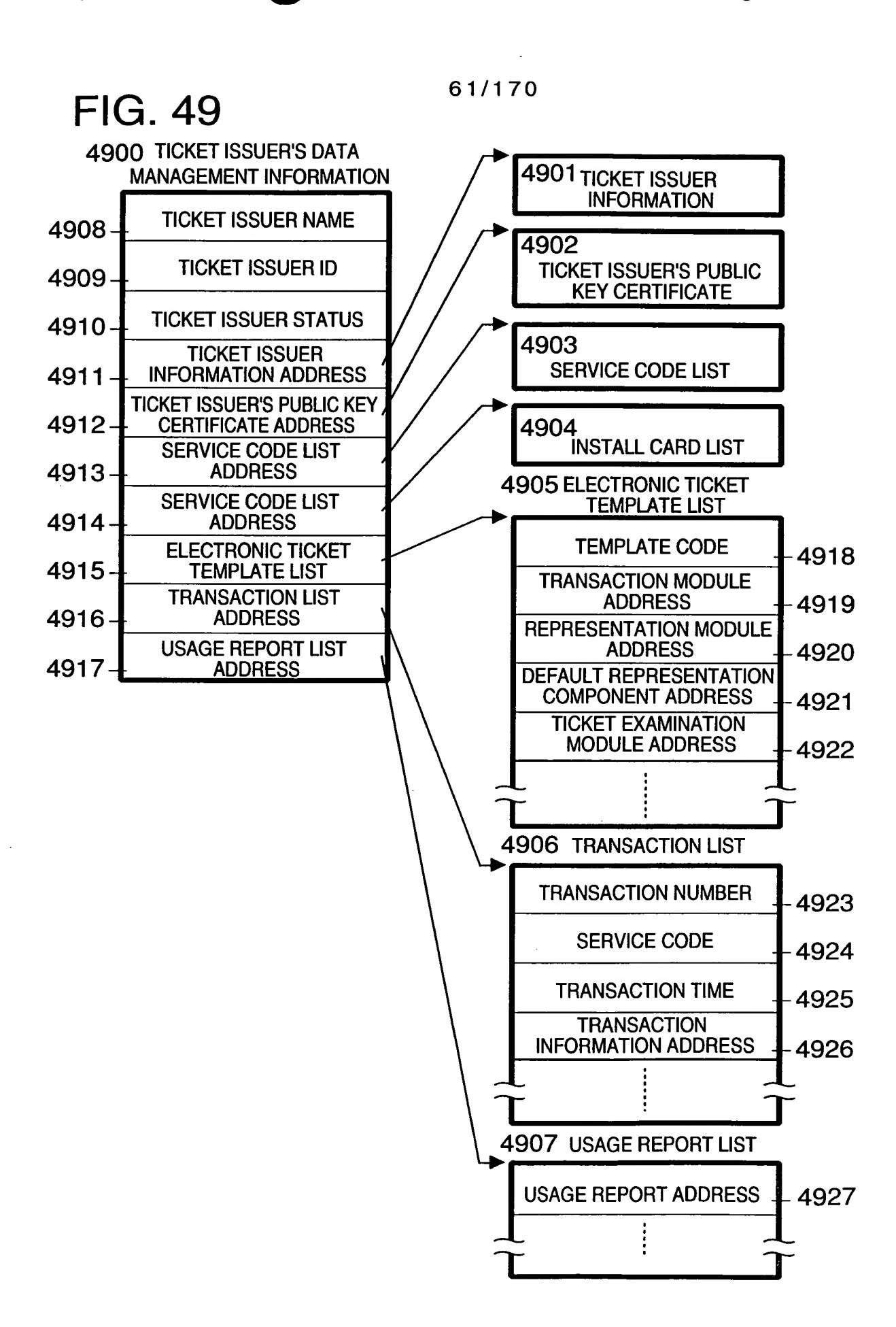
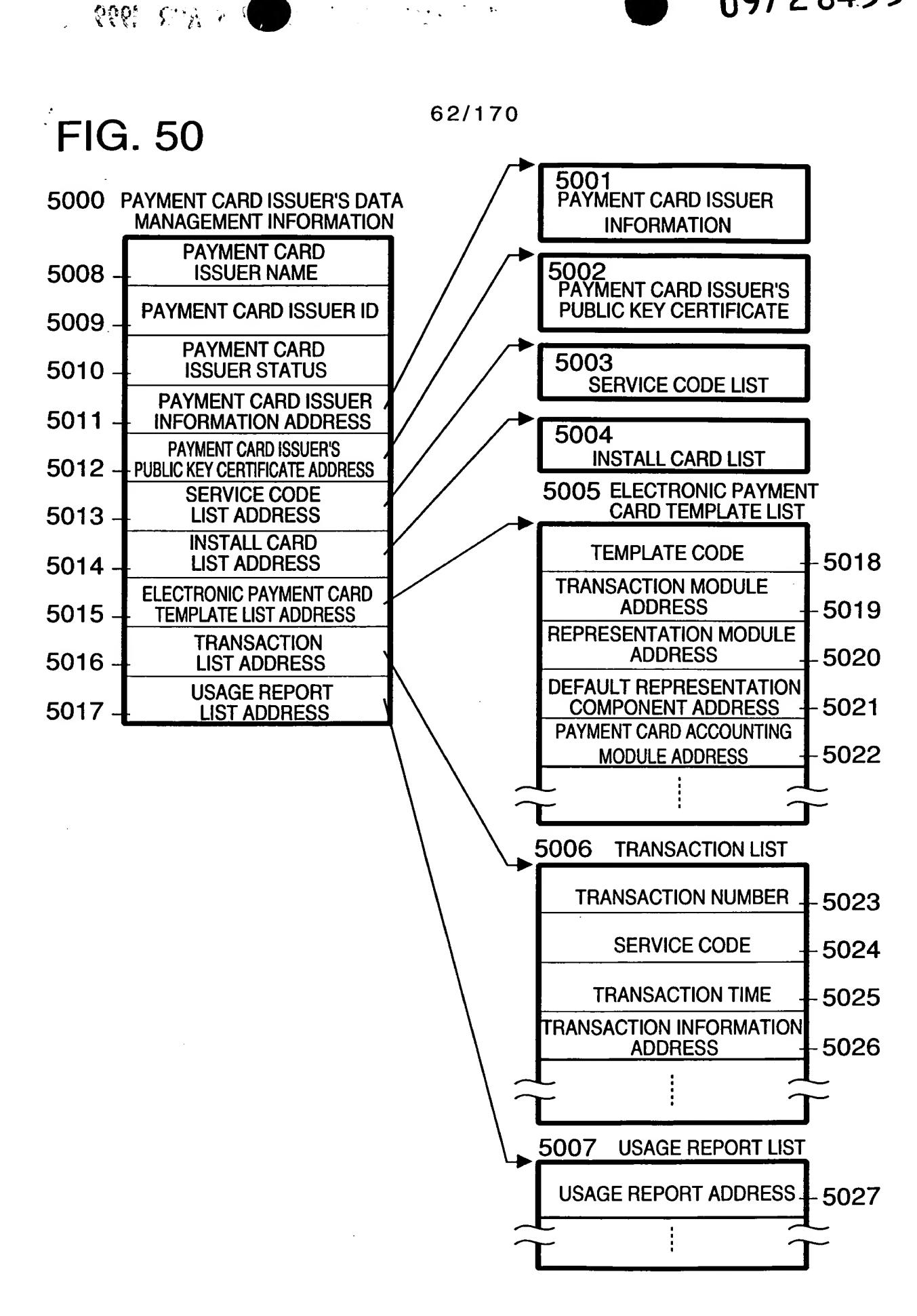
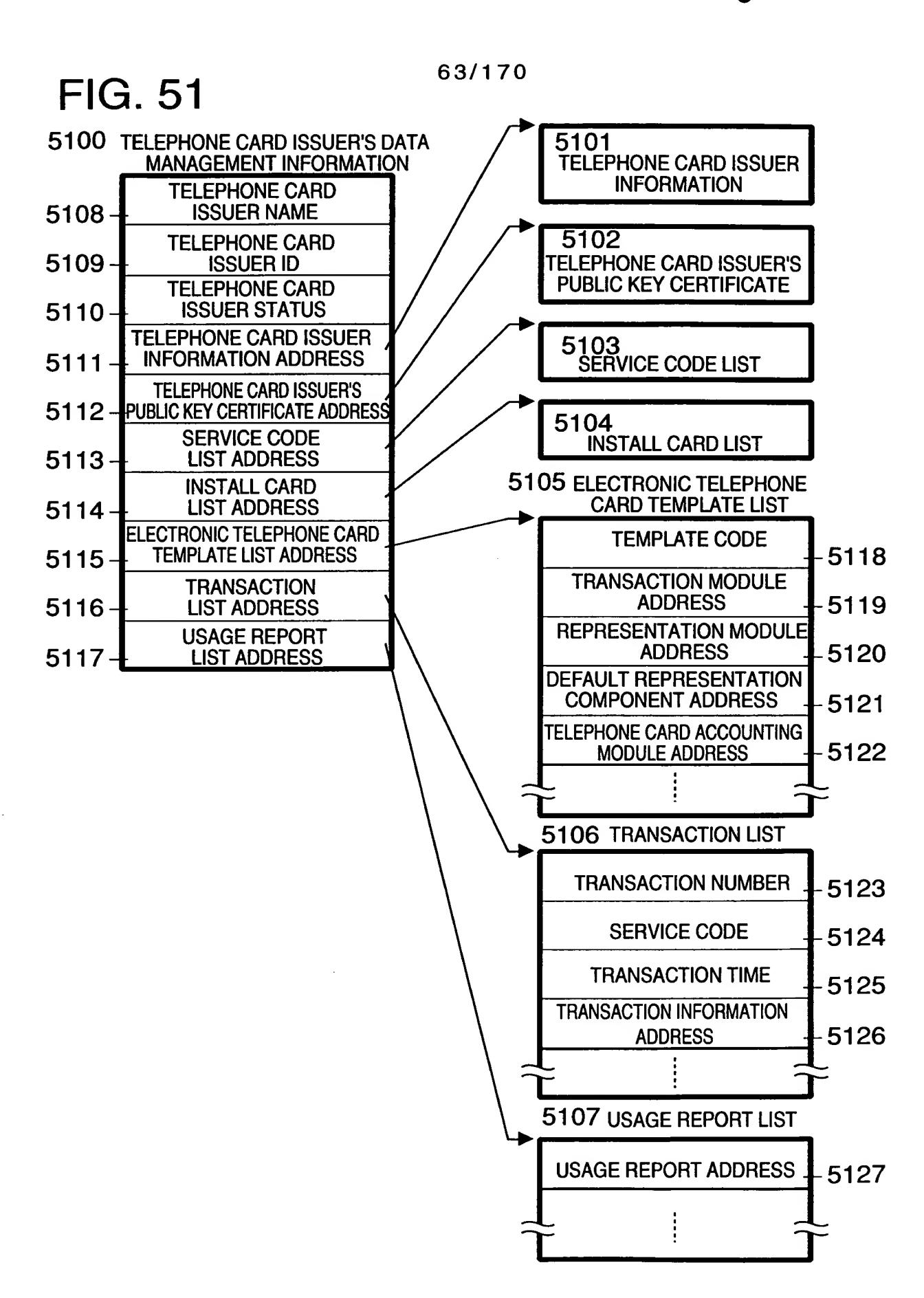


FIG. 48









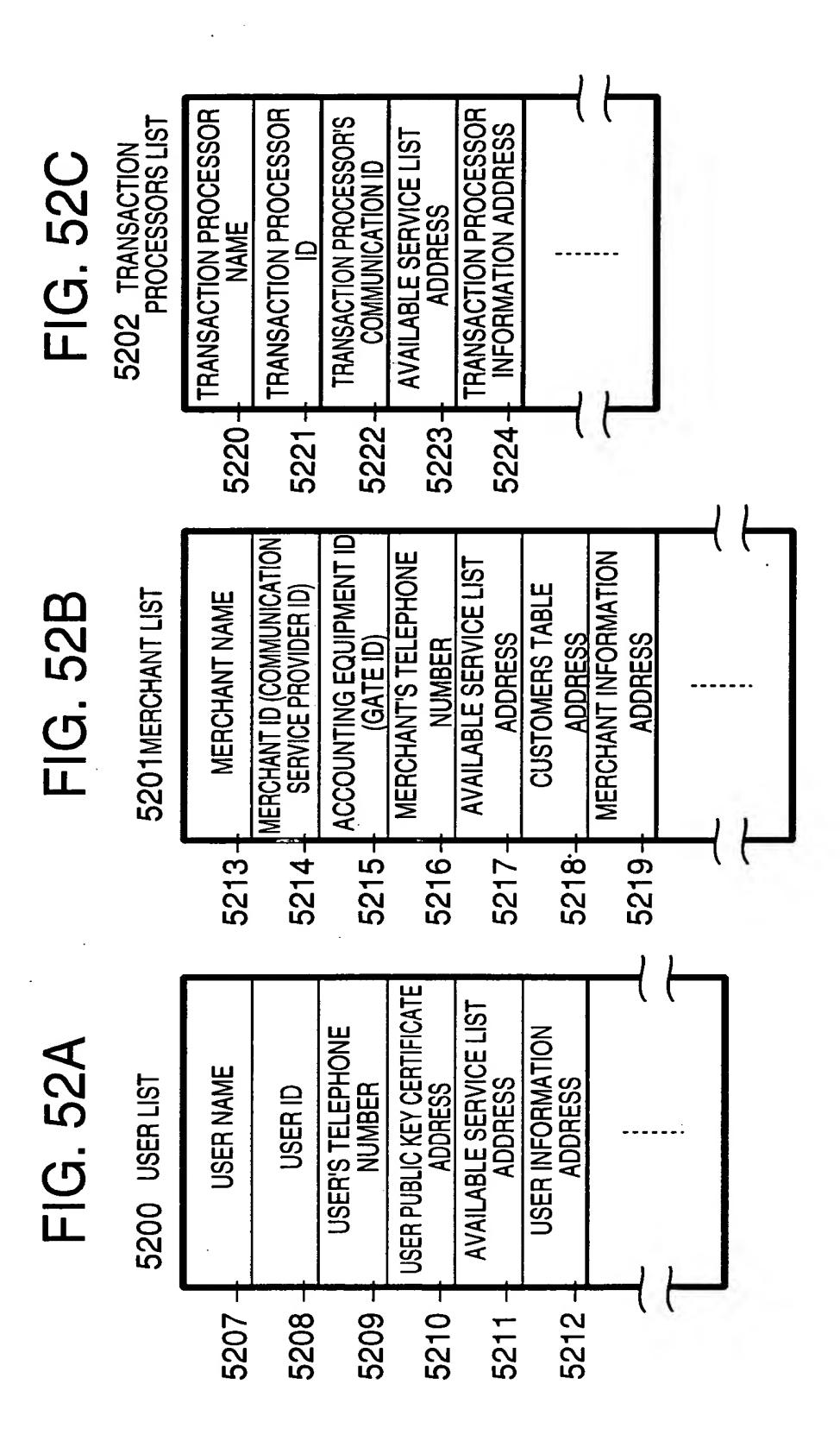


FIG. 52D

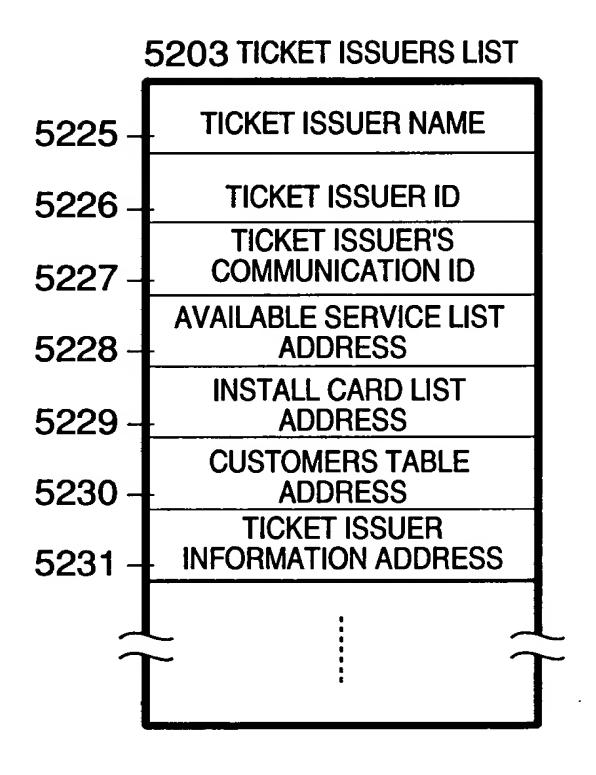


FIG. 52E

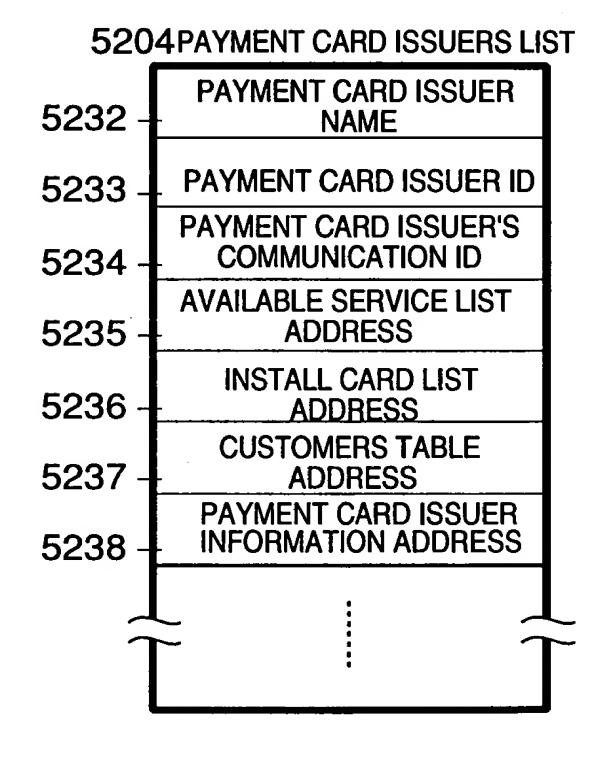


FIG. 52F

5205TELEPHONE CARD ISSUERS LIST

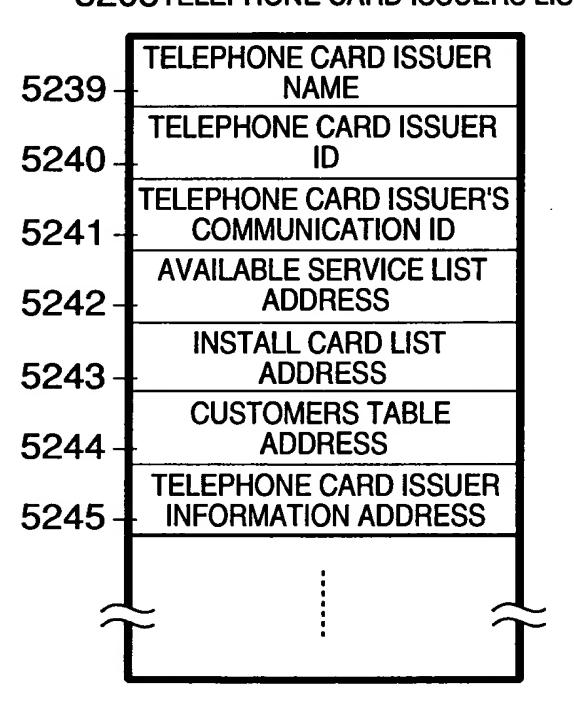
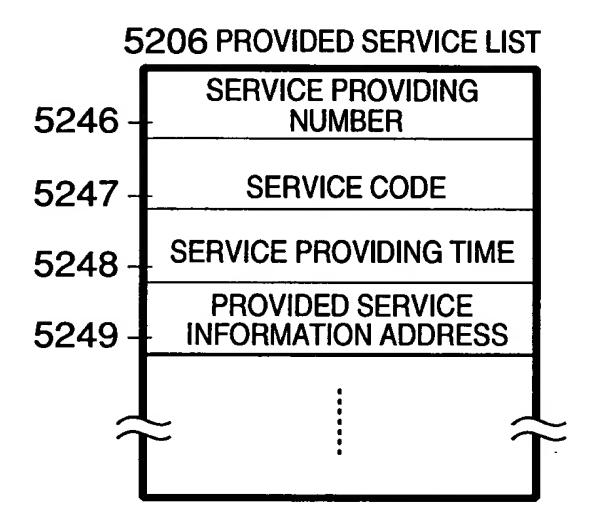
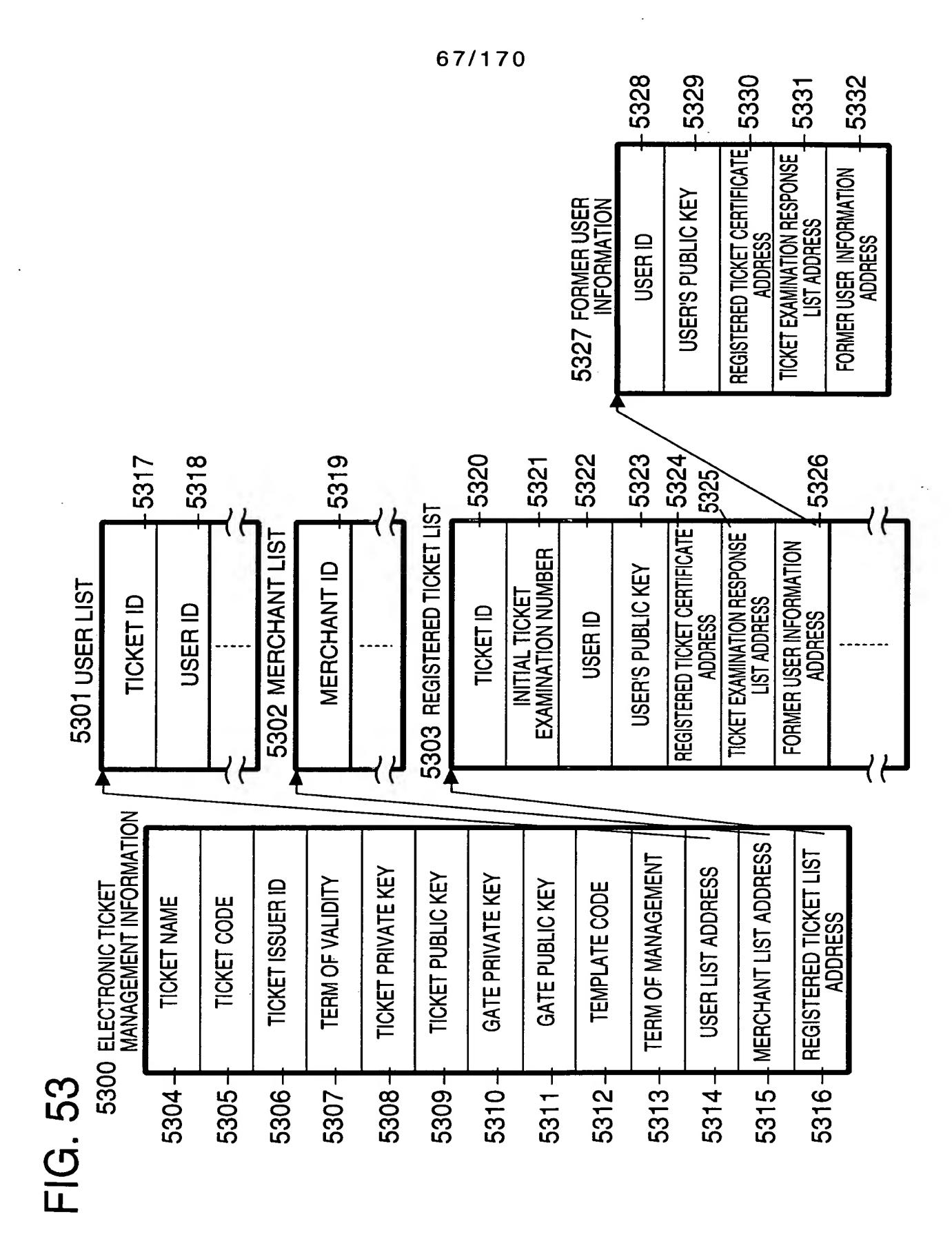


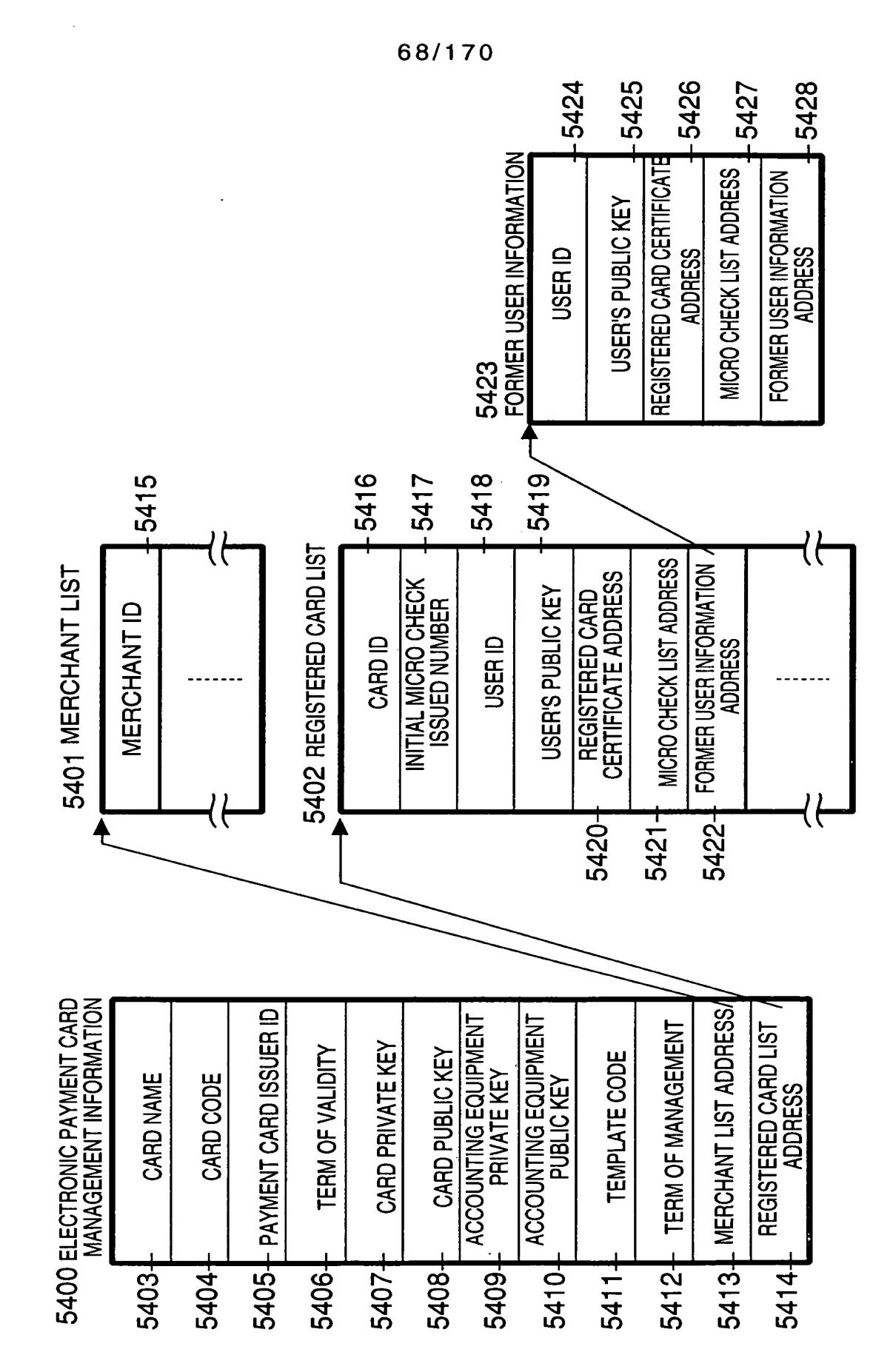
FIG. 52G





HAND BELLEVIEW OF THE RESIDENCE OF THE STATE OF THE STATE

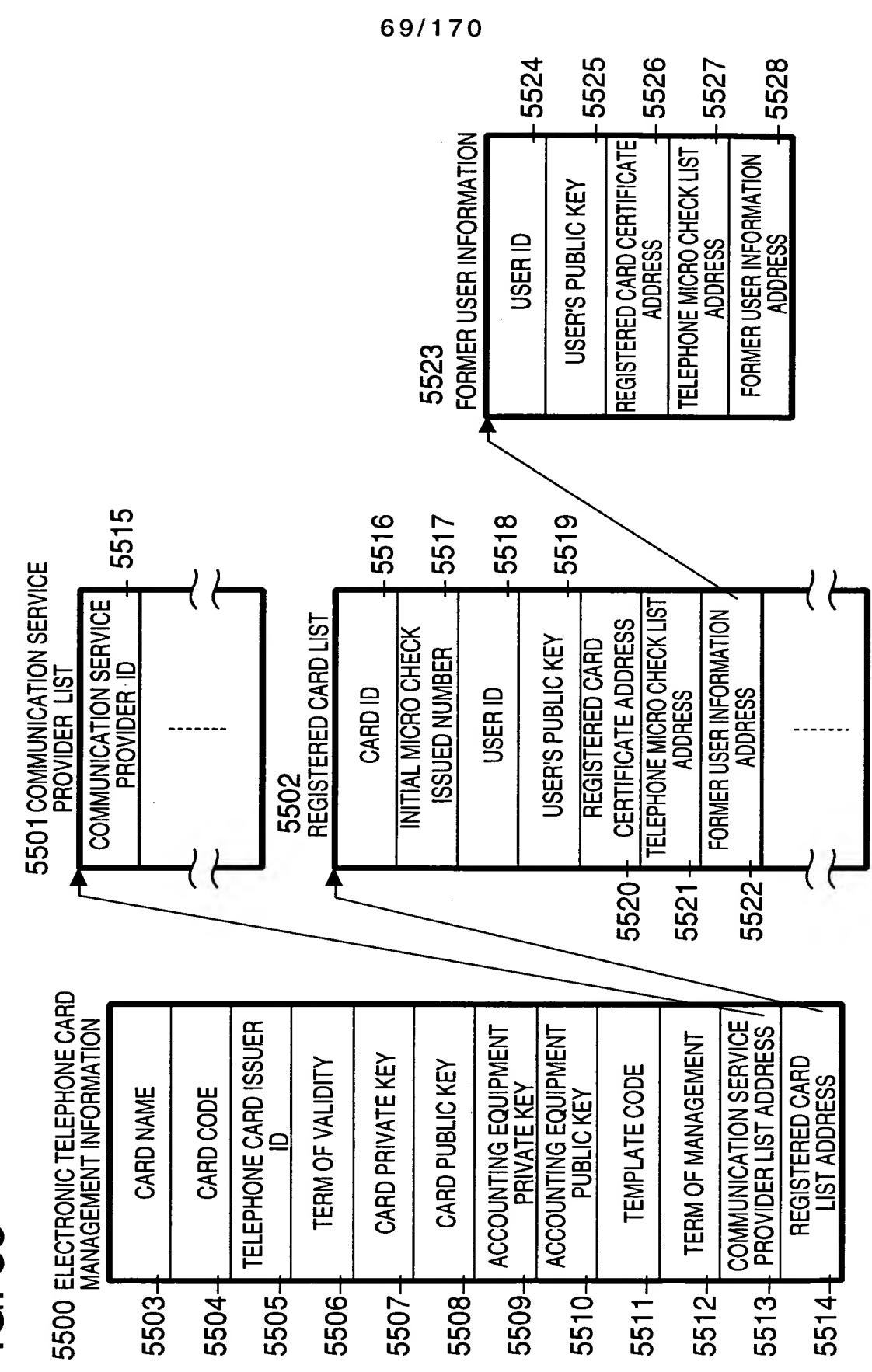
FIG. 54



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FIG. 55

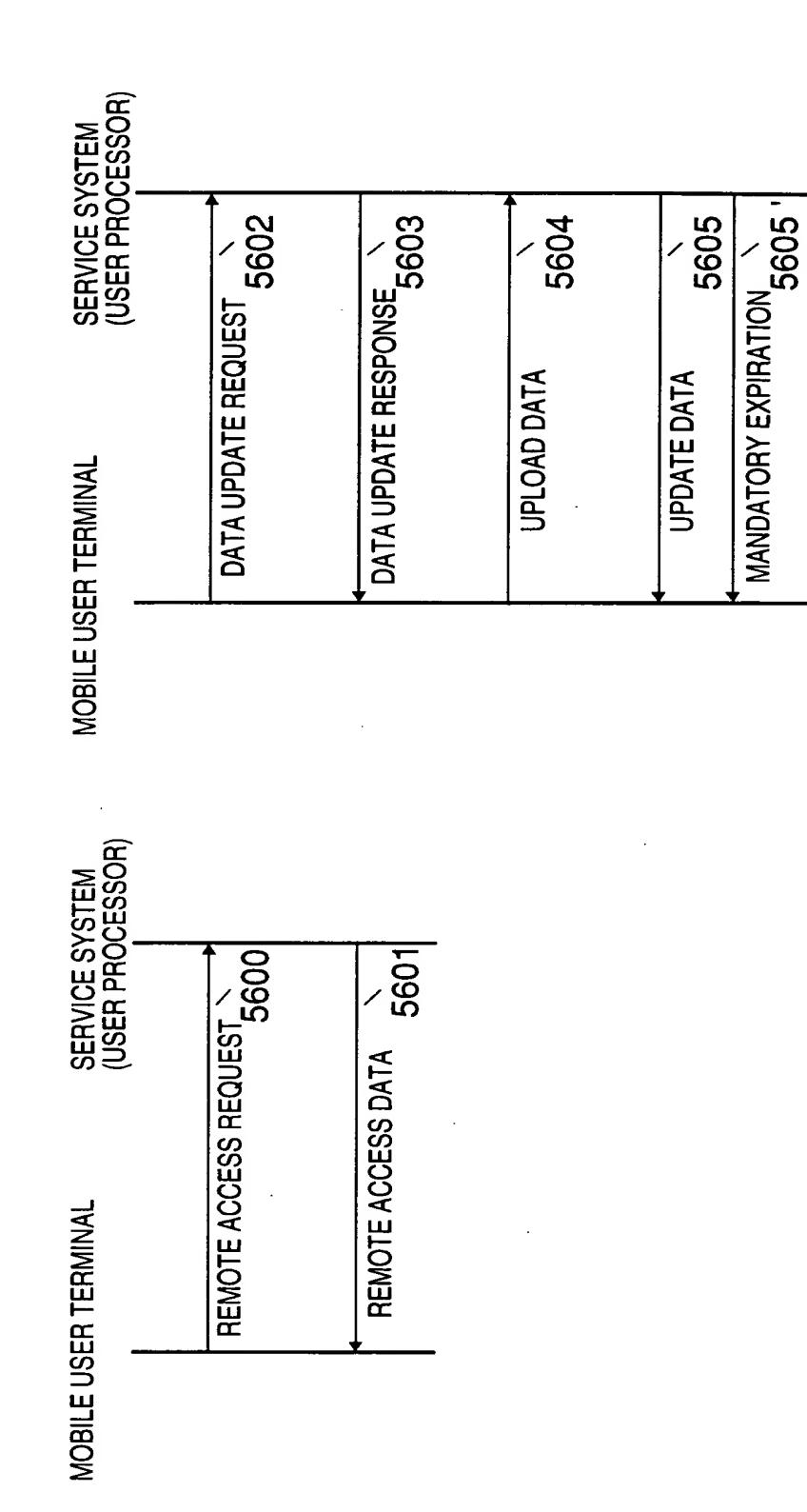


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FIG. 56B

FIG. 56A

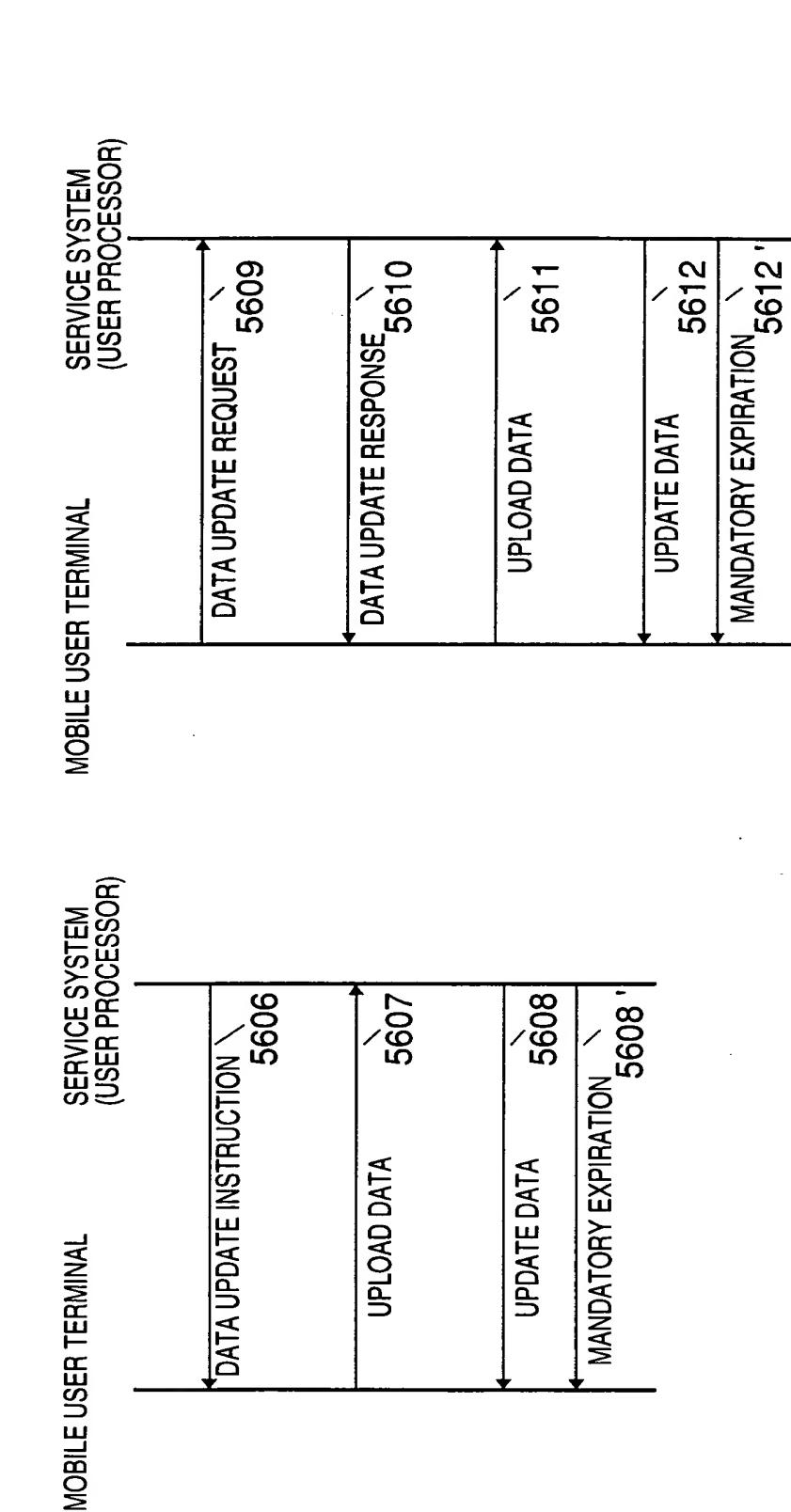
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FIG. 56C

FIG. 56D



MANDATORY EXPIRATION 5705

5705

UPDATE DATA

5704

UPLOAD DATA

FIG. 57B

FIG. 57A

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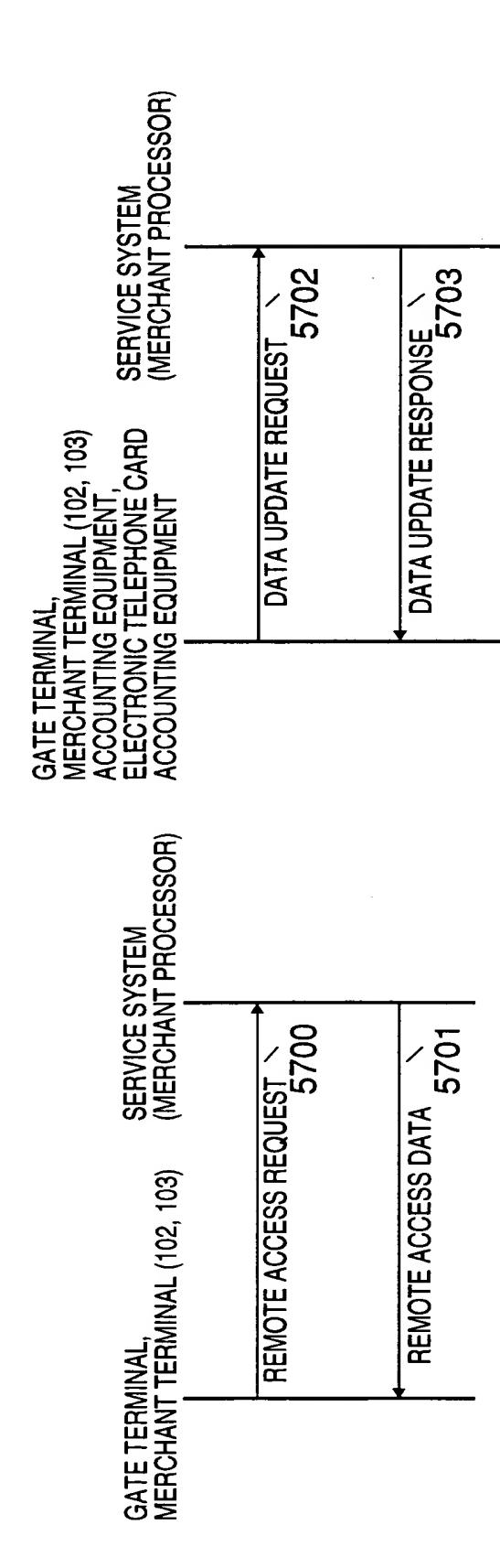


FIG. 57C

FIG. 57D

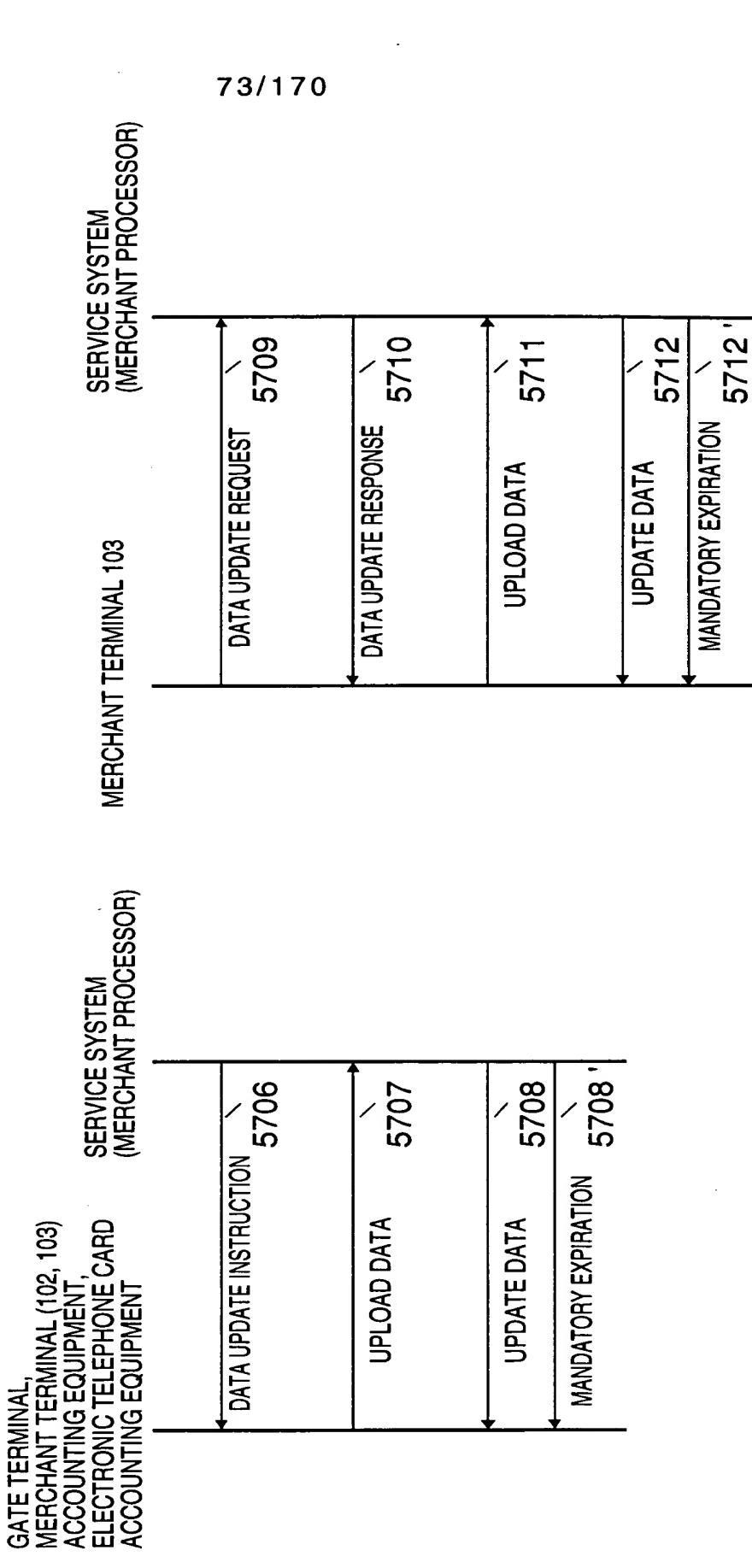


FIG. 58

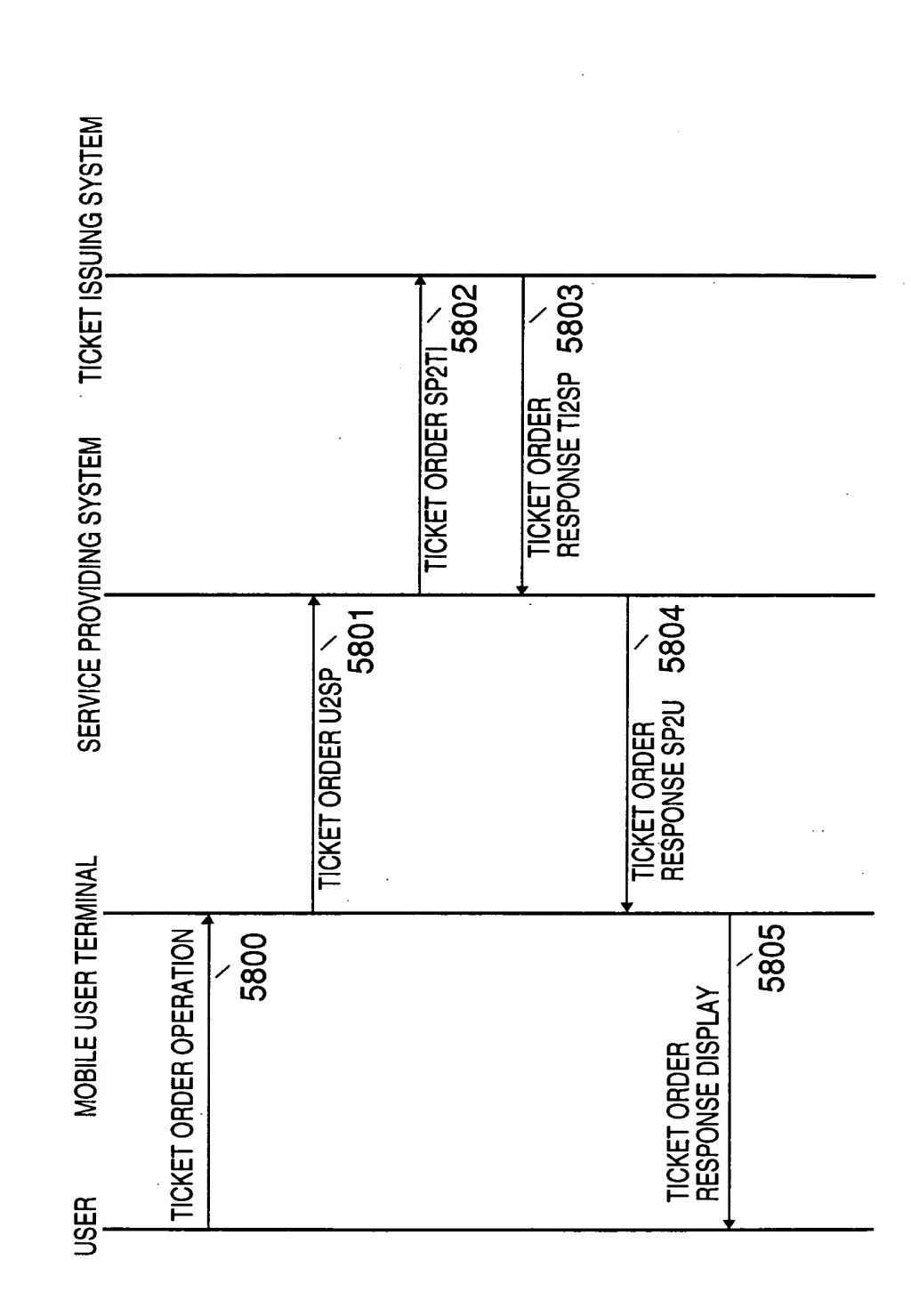


FIG. 59

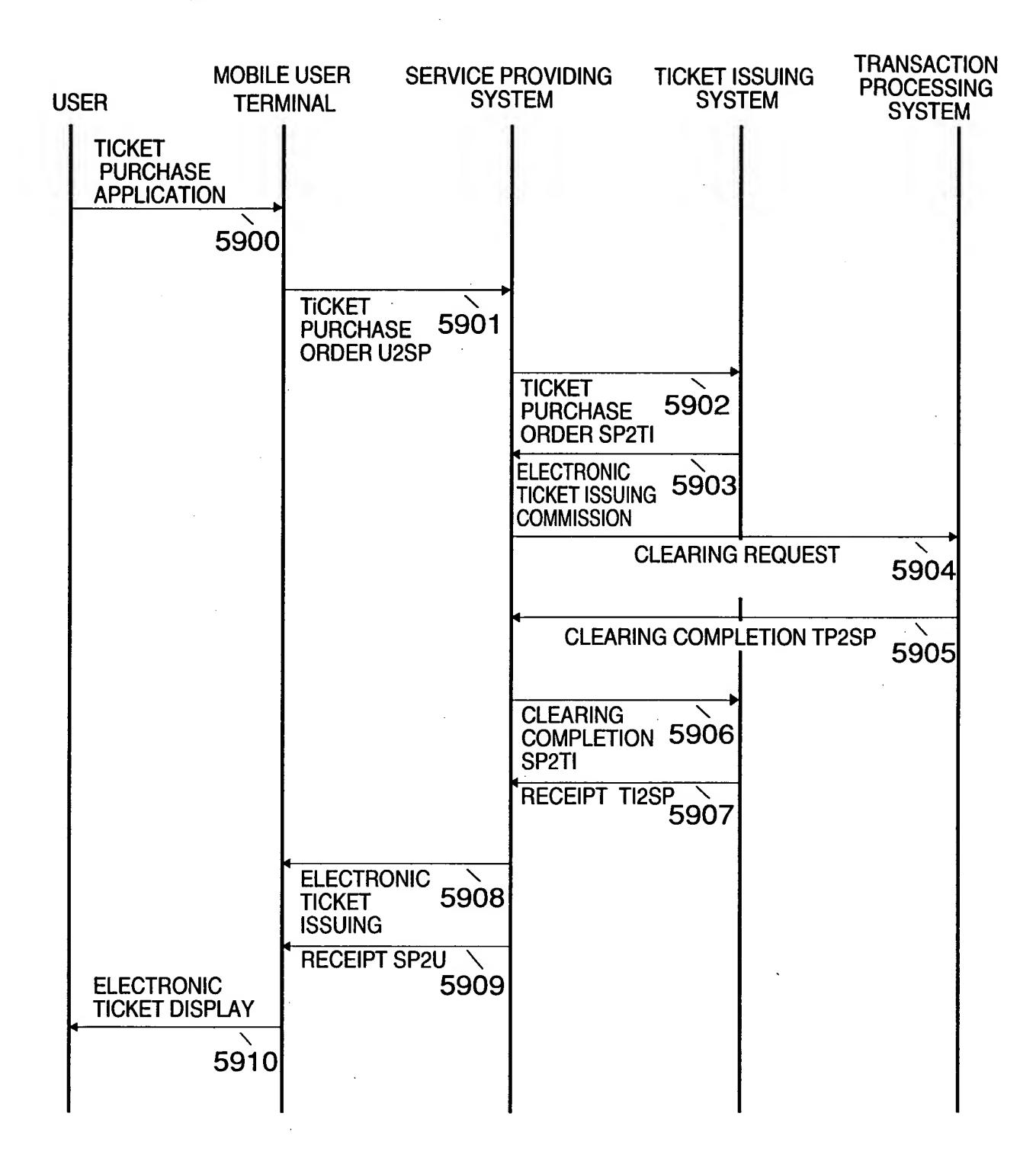






FIG. 60

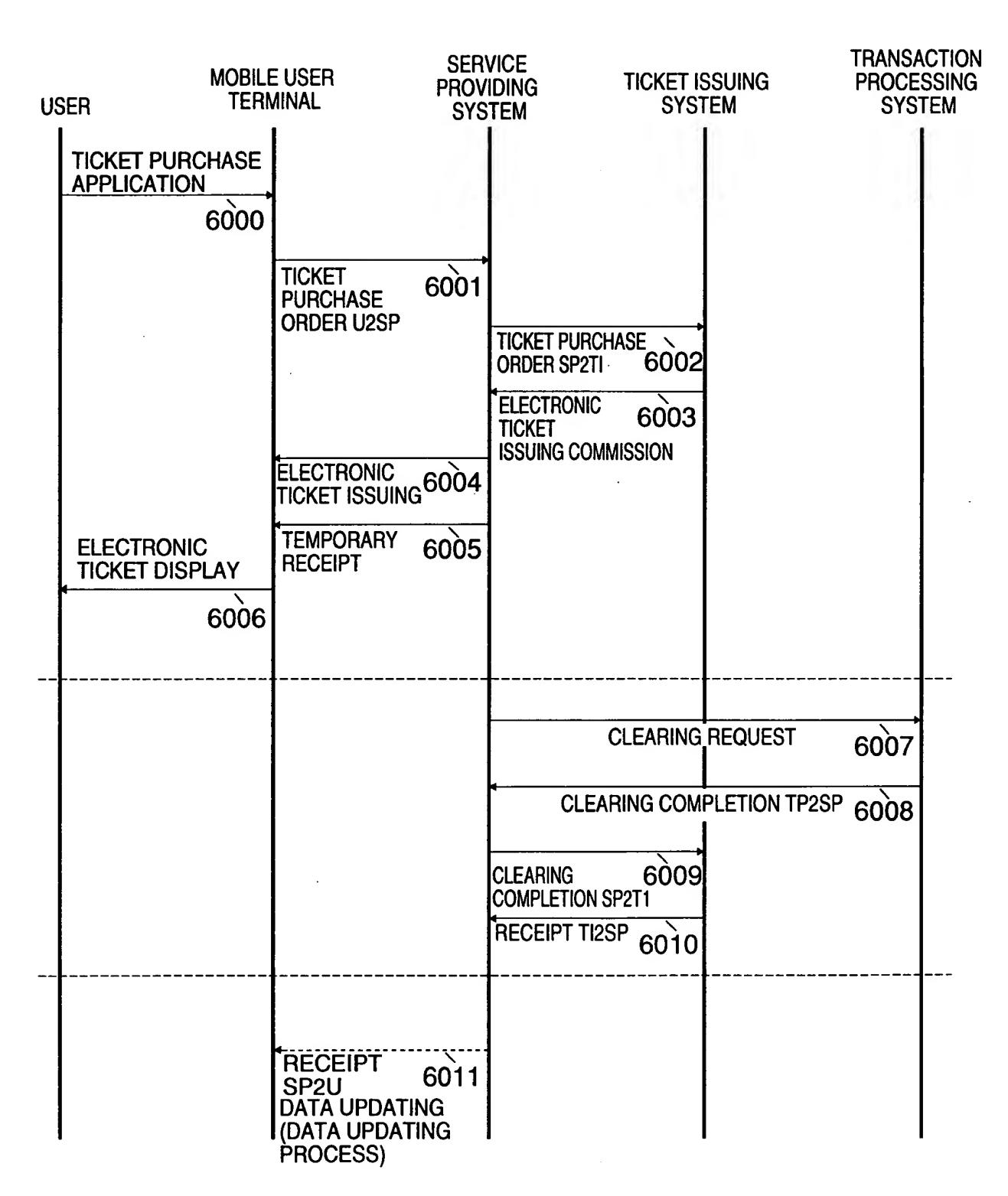


FIG. 61

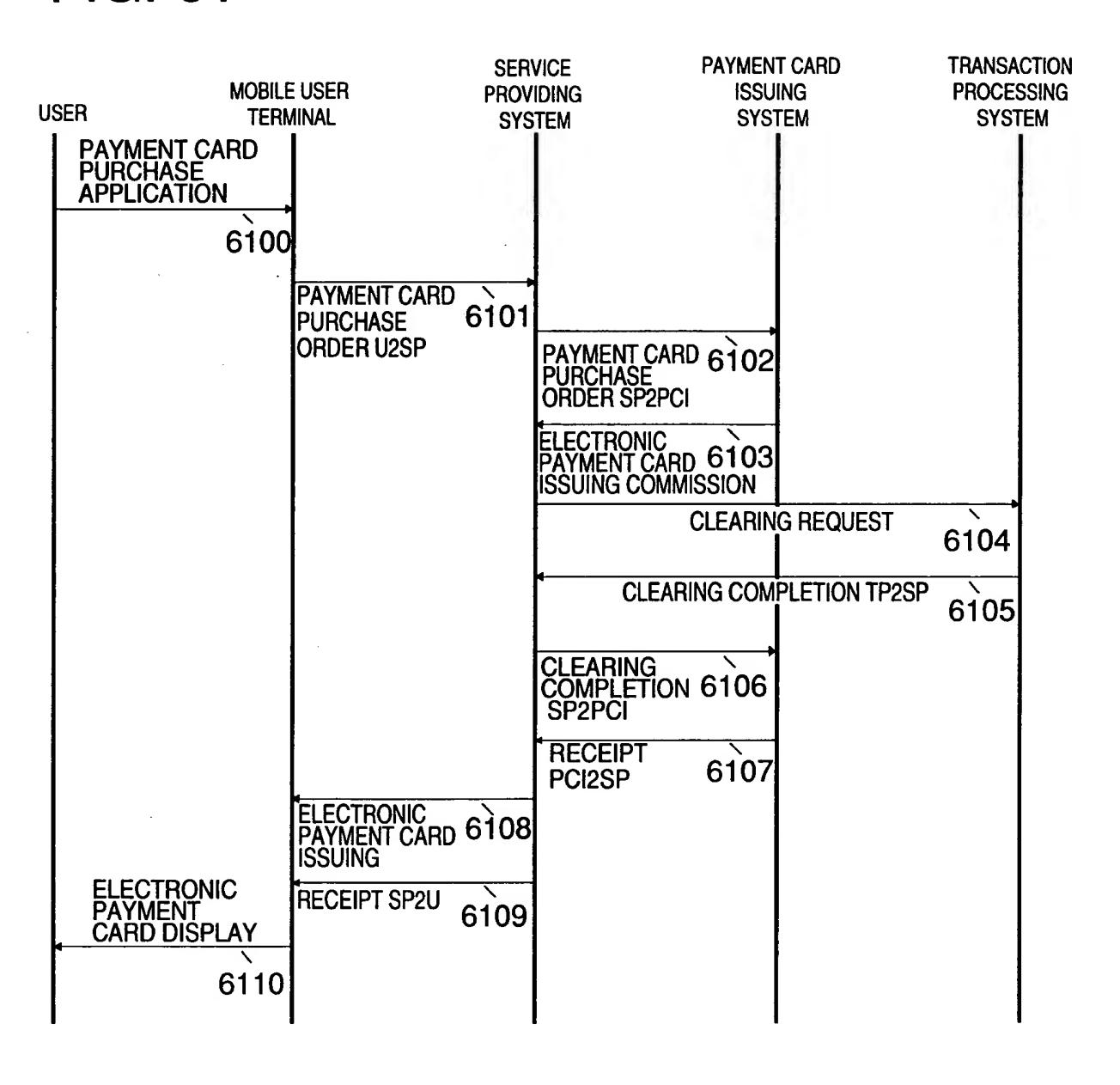


FIG. 62

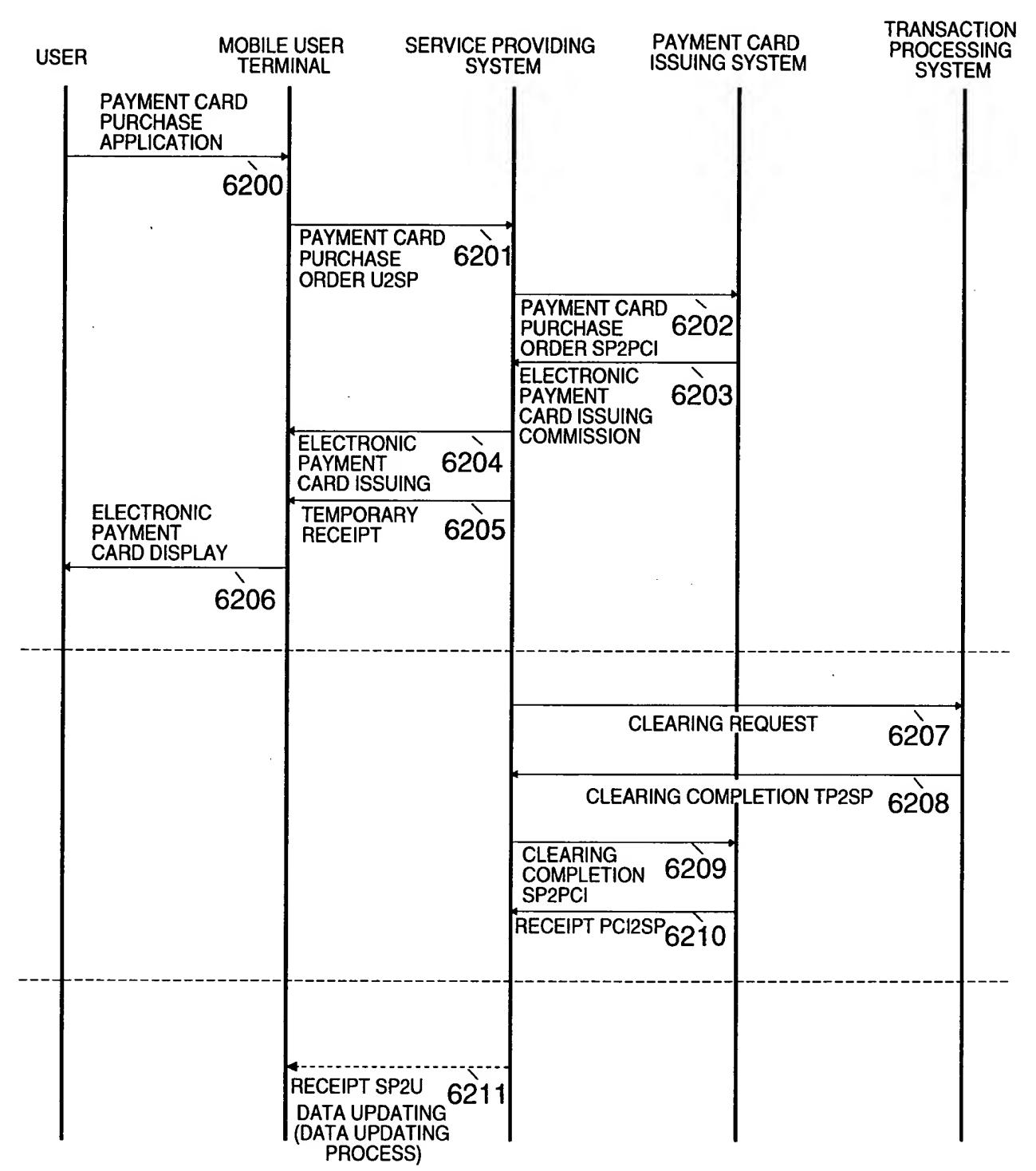




FIG. 63

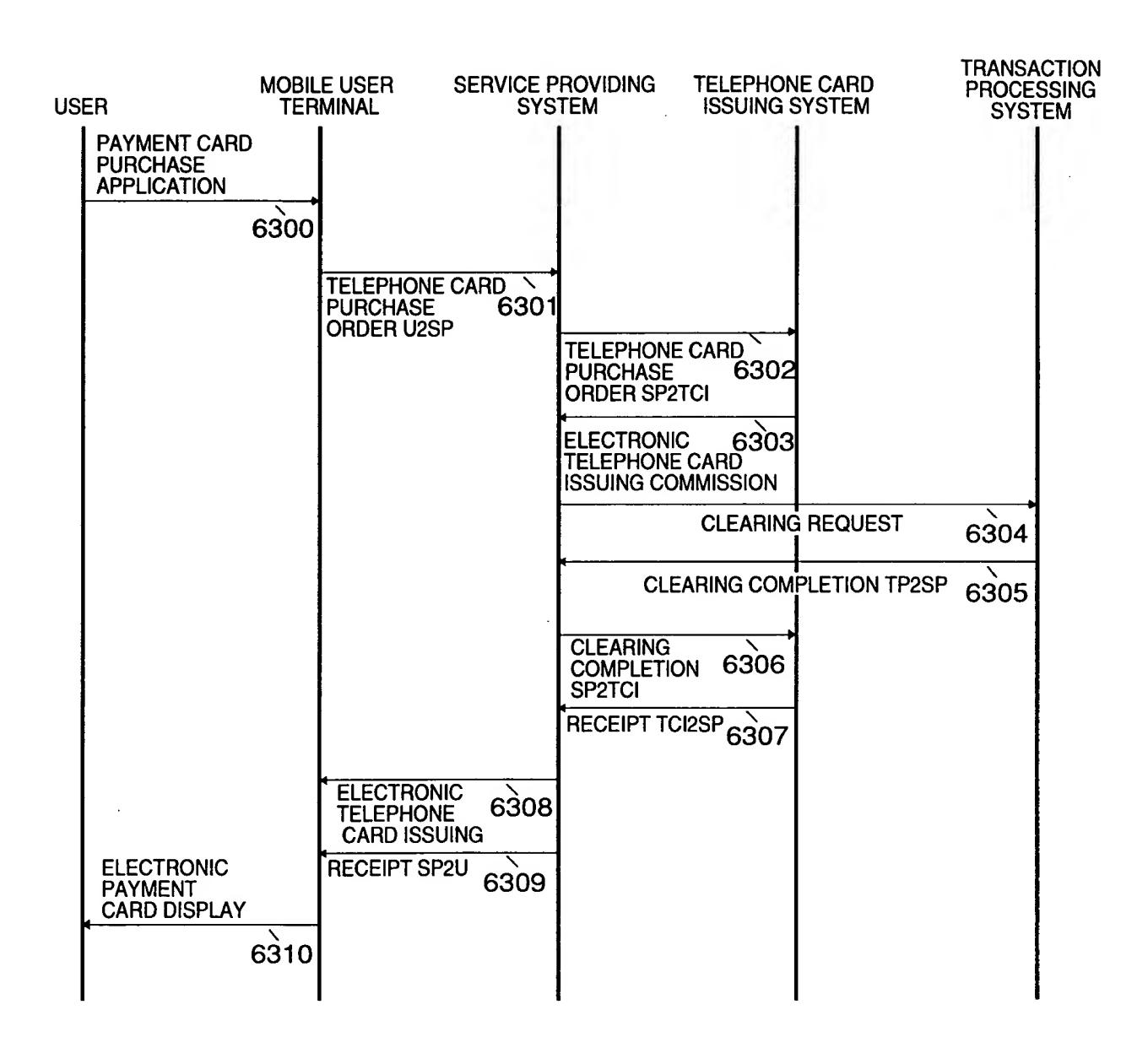
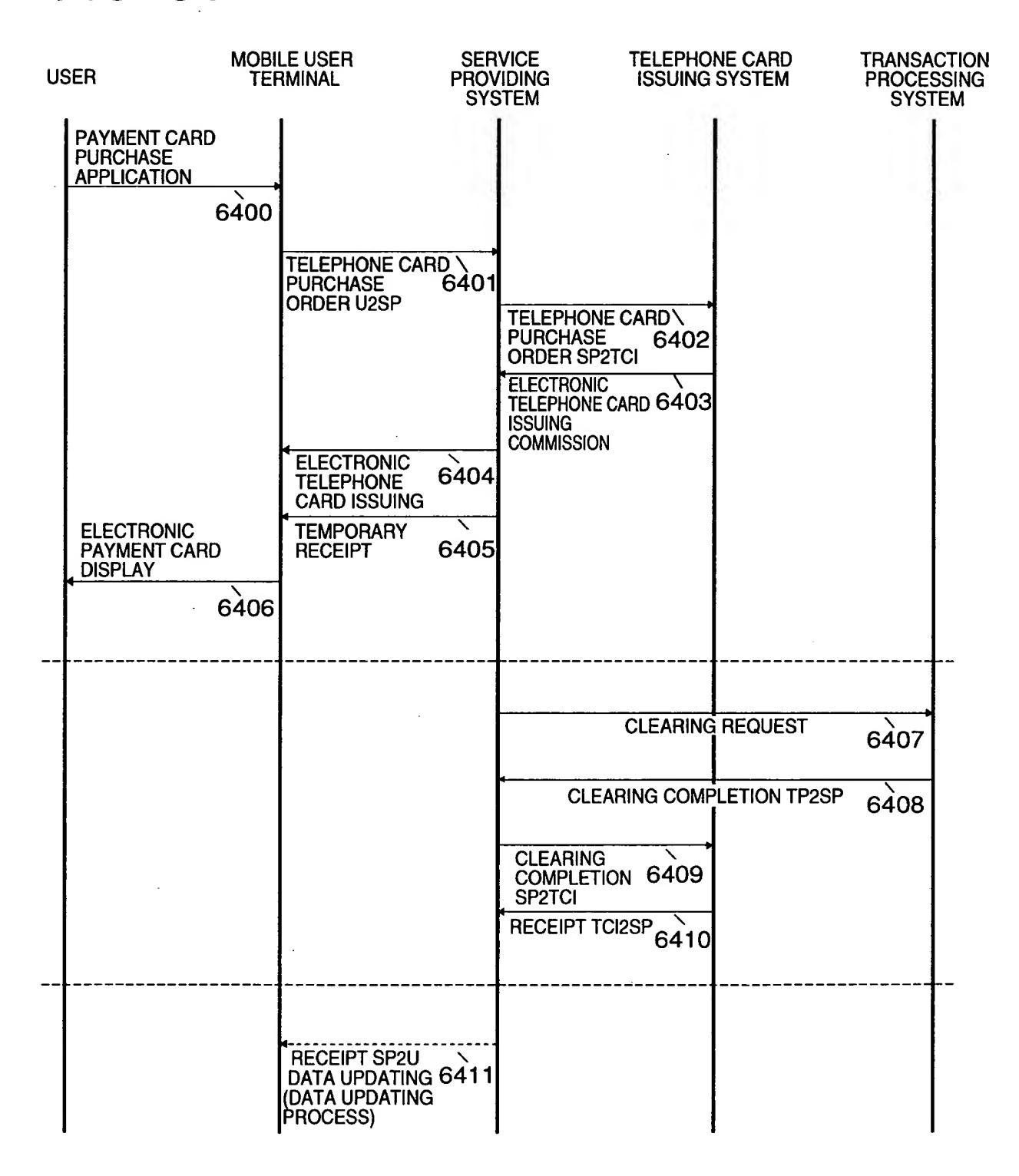


FIG. 64



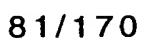


FIG. 65A

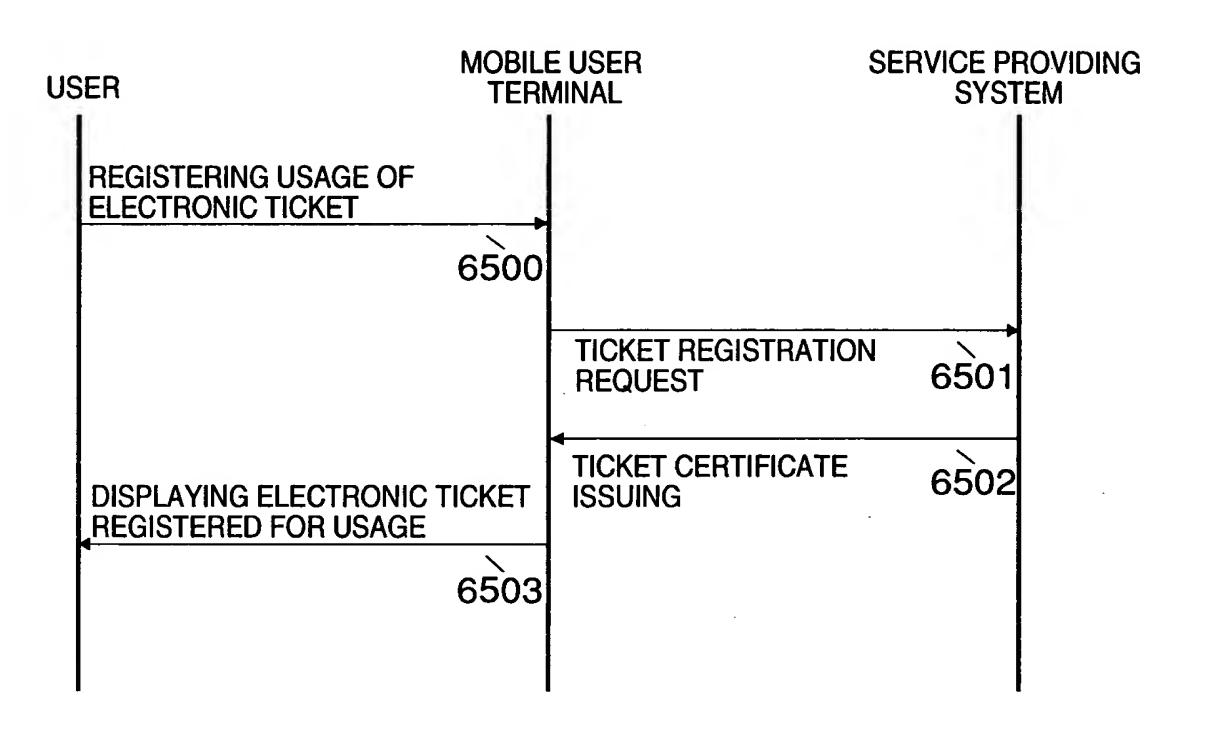


FIG. 65B

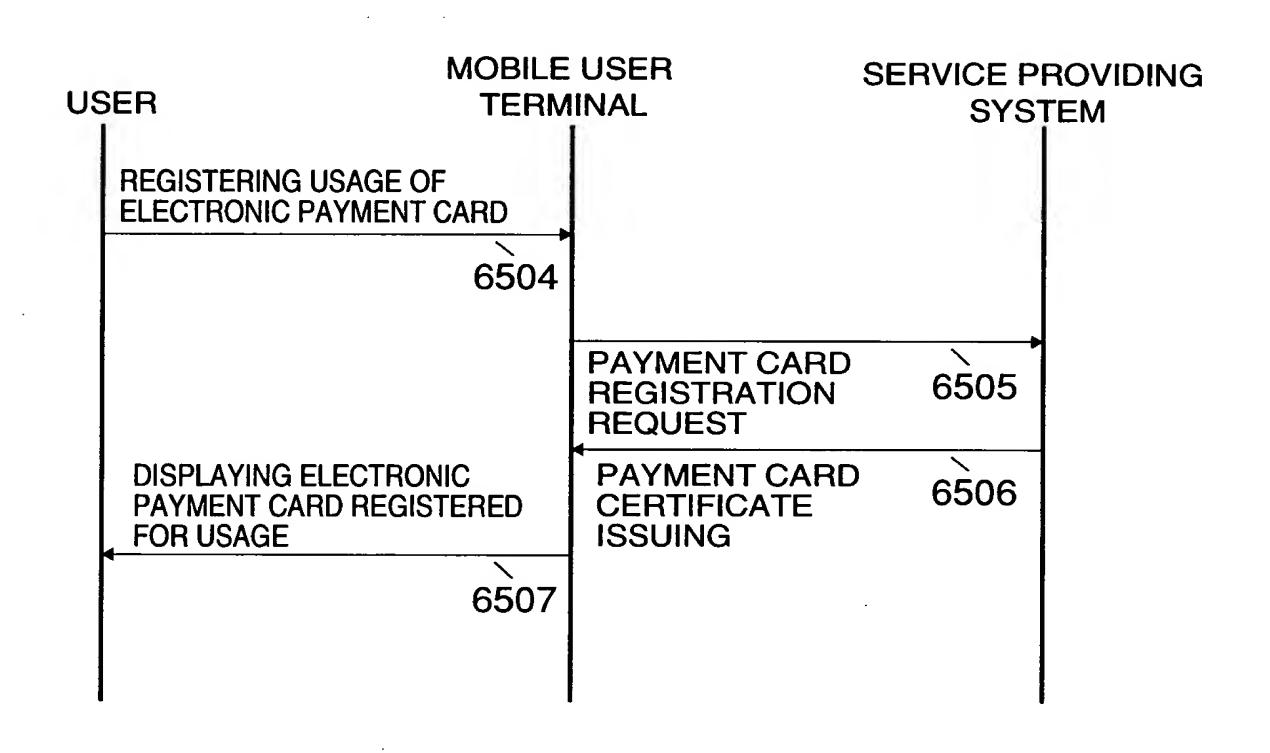


FIG. 65C

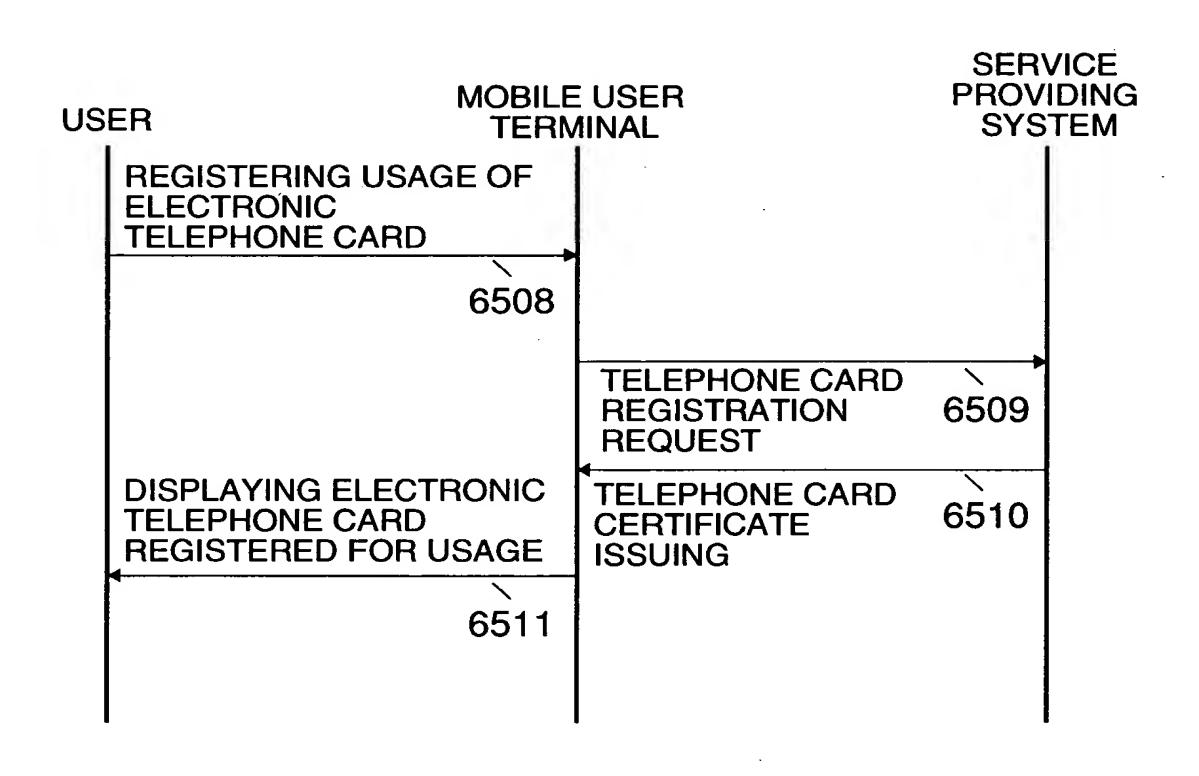
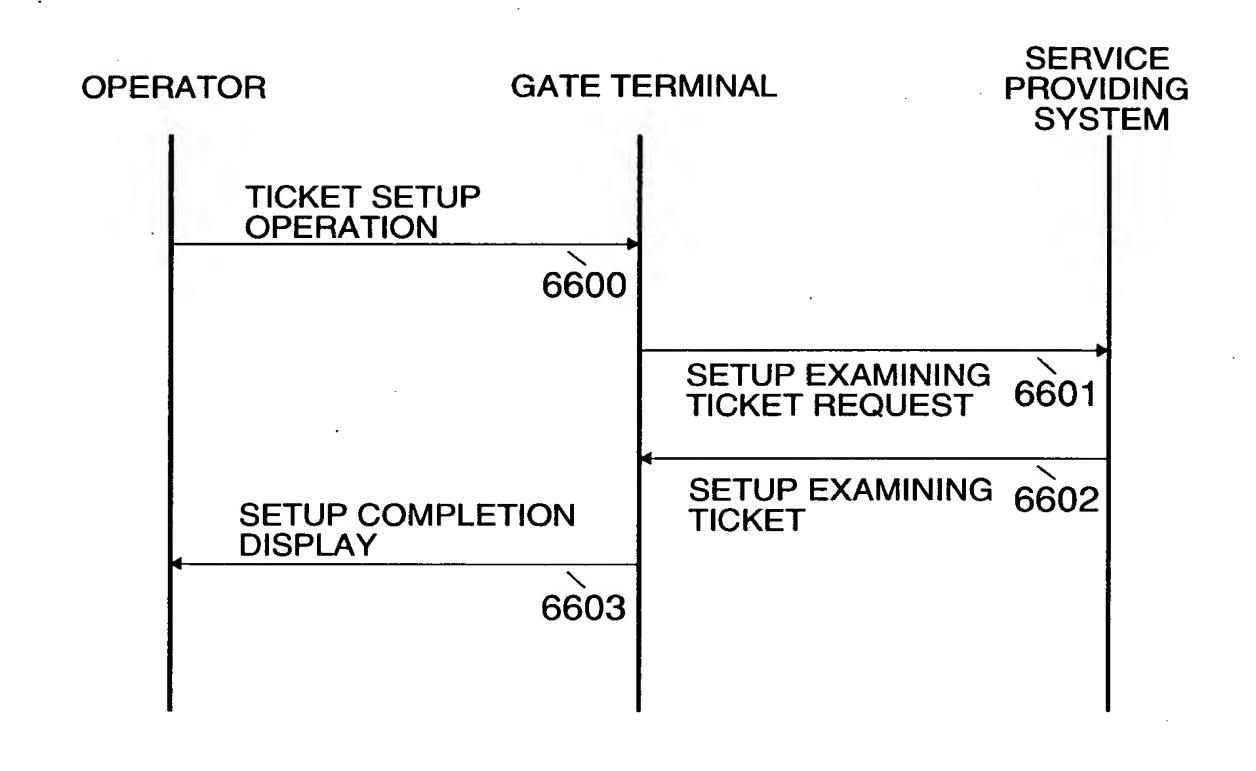


FIG. 66



OPERATOR OR GATE EQUIPMENT 6705 6707 EXAMINATION RESULT DISPLAY **GATE TERMINAL** 6702 6703 6704 6701 **ENTRANCE** TICKET PRESENTATION TICKET EXAMINATION RESPONSE TICKET EXAMINATION EXAMINATION CERTIFICATE PERMIT MOBILE USER TERMINAL 90/9 6700 EXAMINED TICKET DISPLAY TICKET SETUP OPERATION USER

FIG. 67

FIG. 68

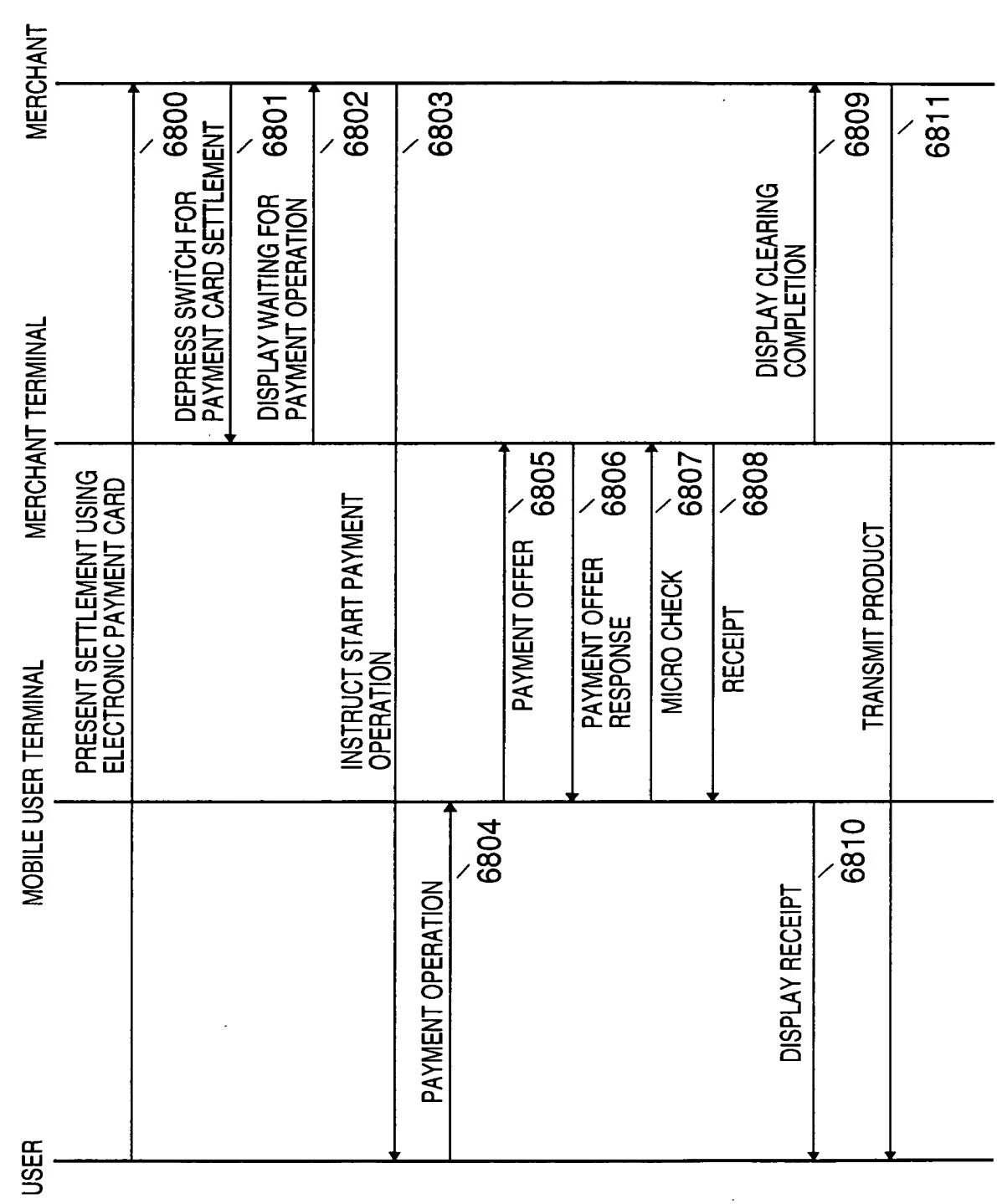


FIG. 69

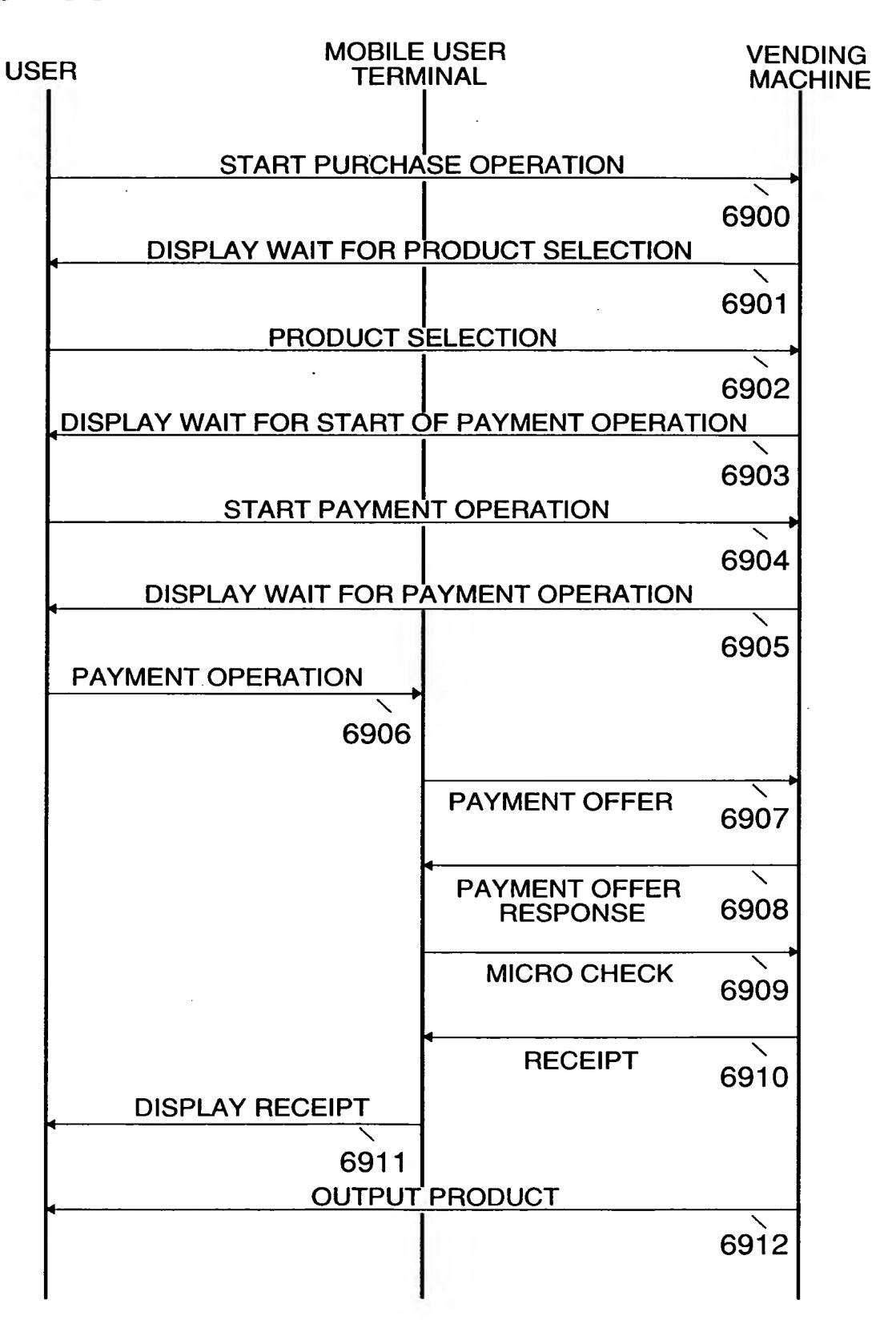
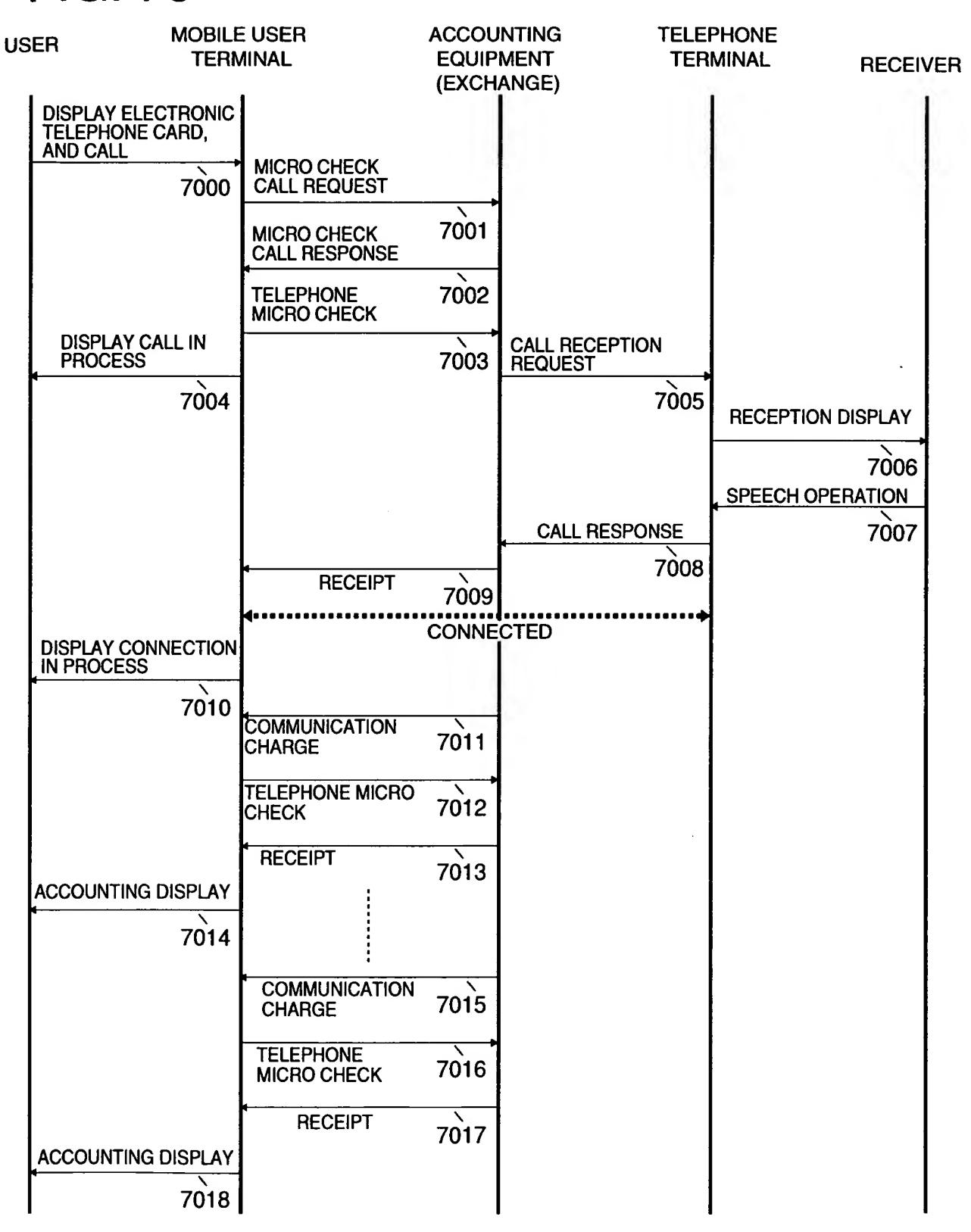


FIG. 70



A 6.8 C. He H H H.A H.A C. K. H. H. H H.A H.

FIG. 71

07-12

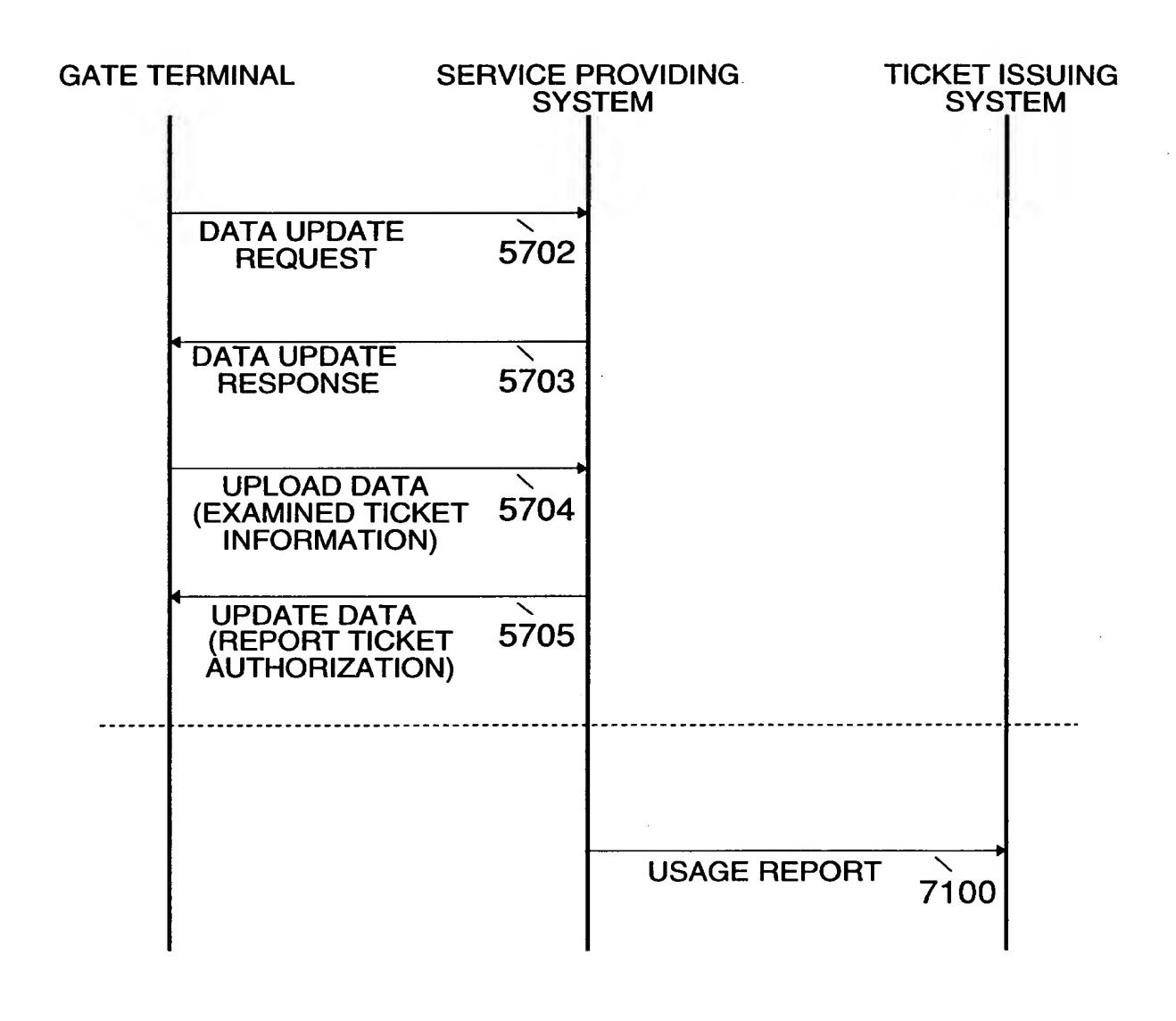
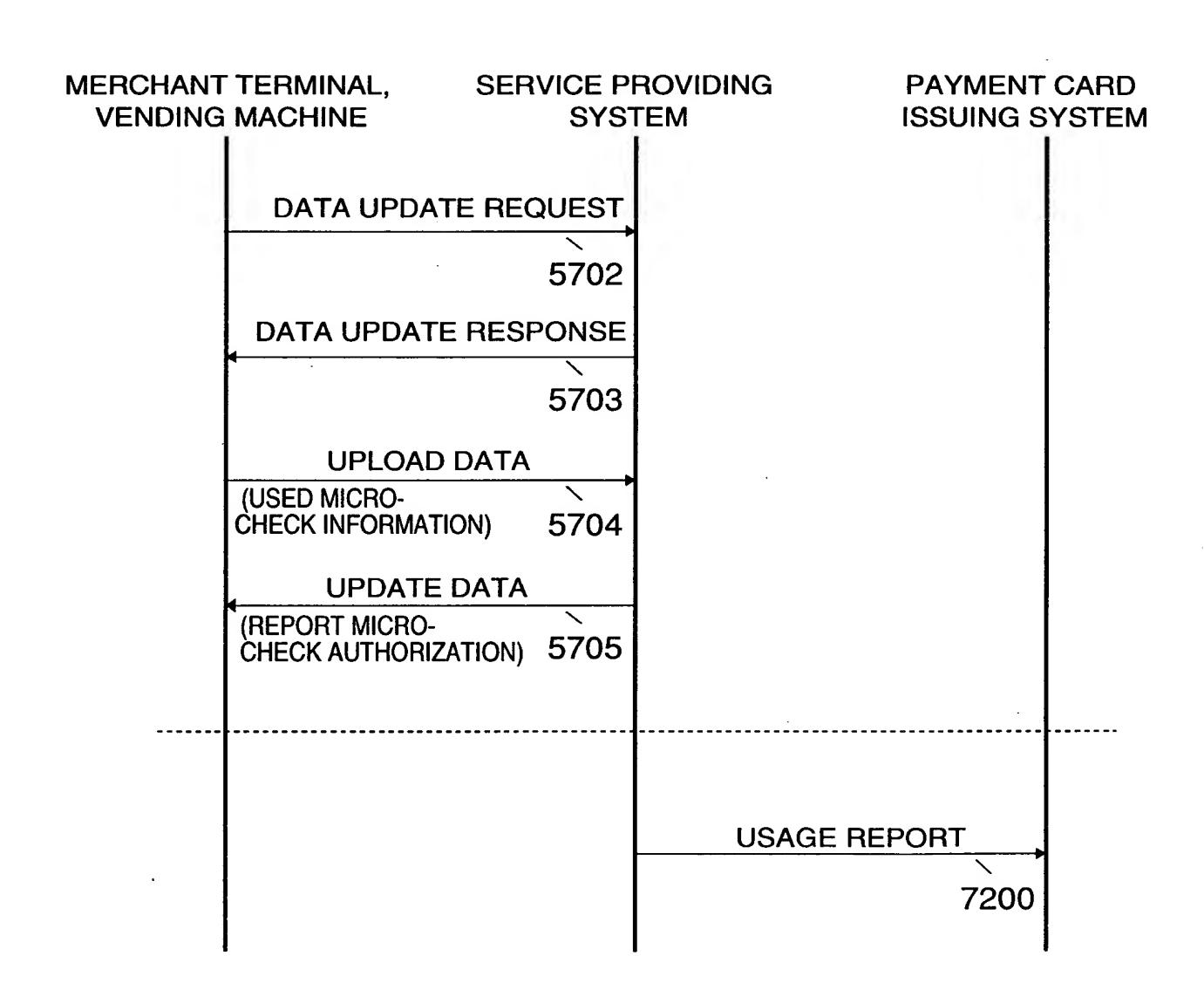


FIG. 72





:=

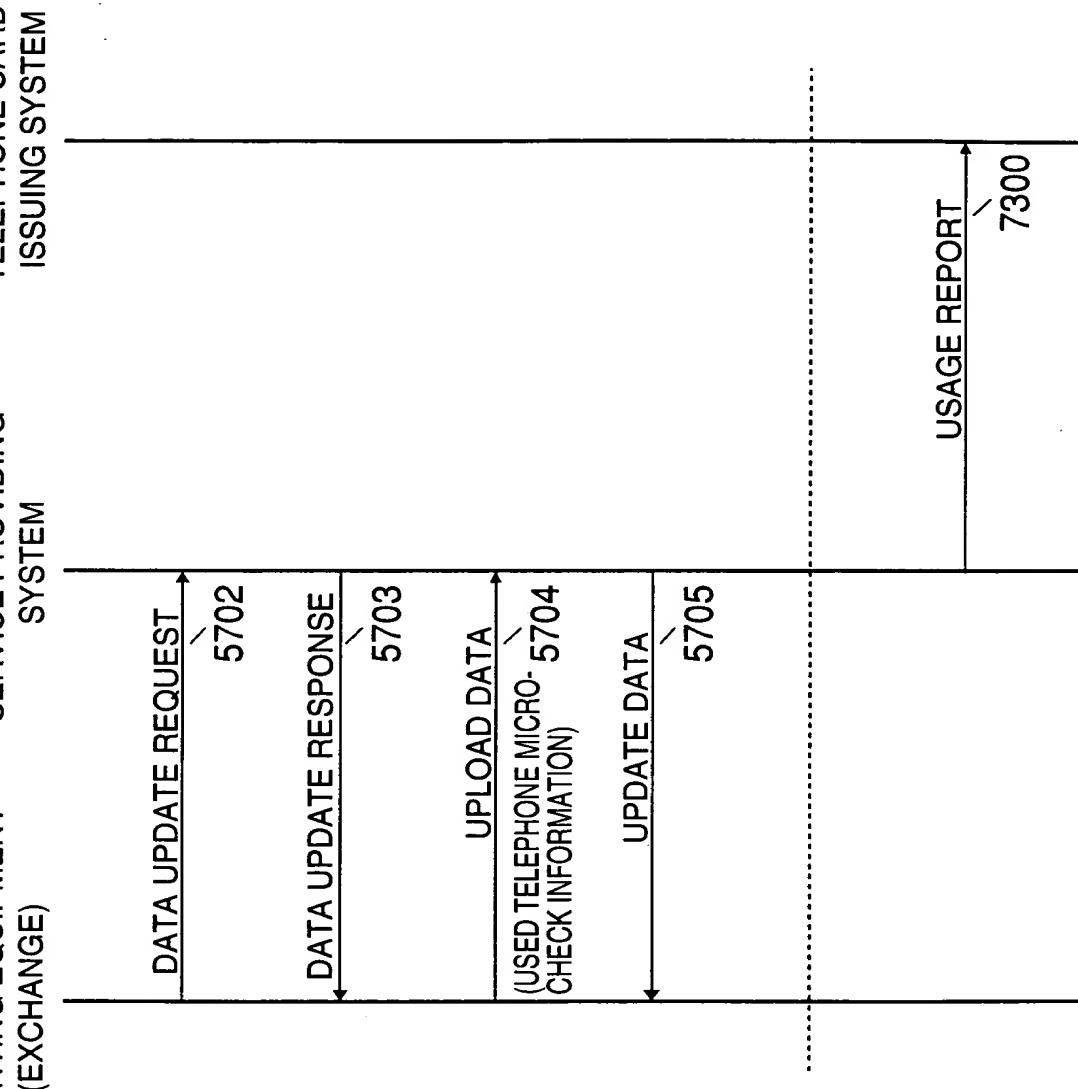


FIG. 74

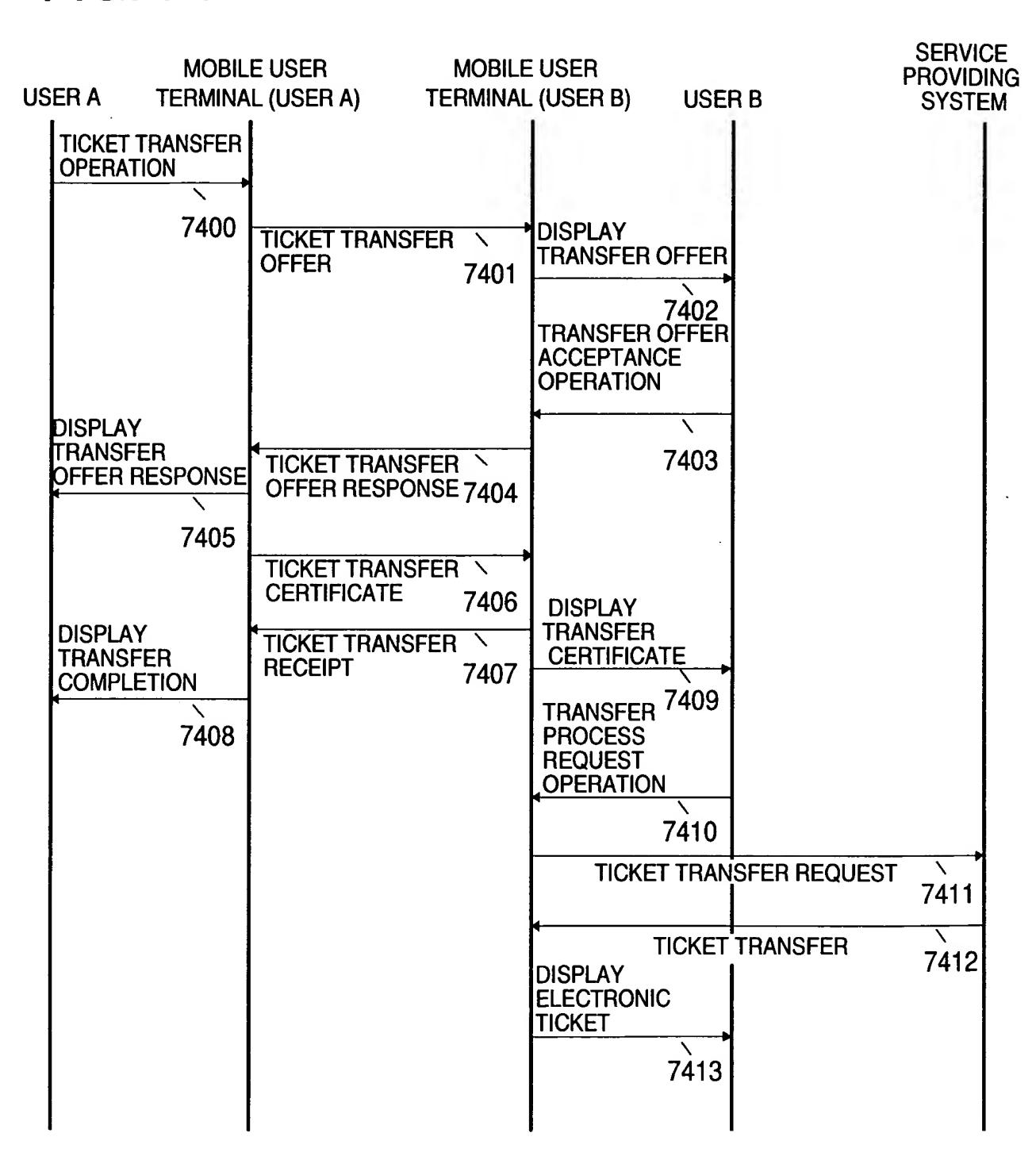


FIG. 75

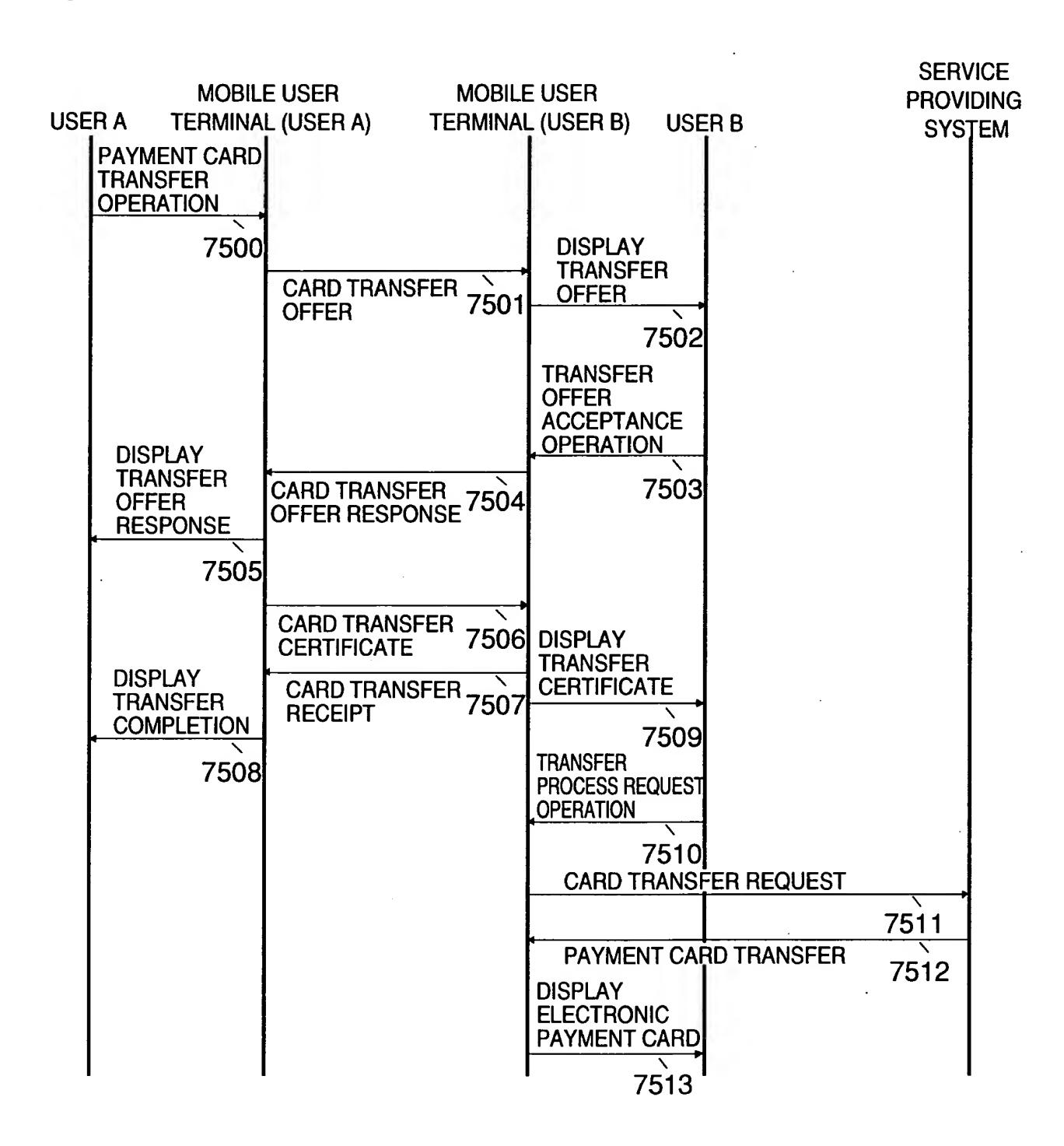
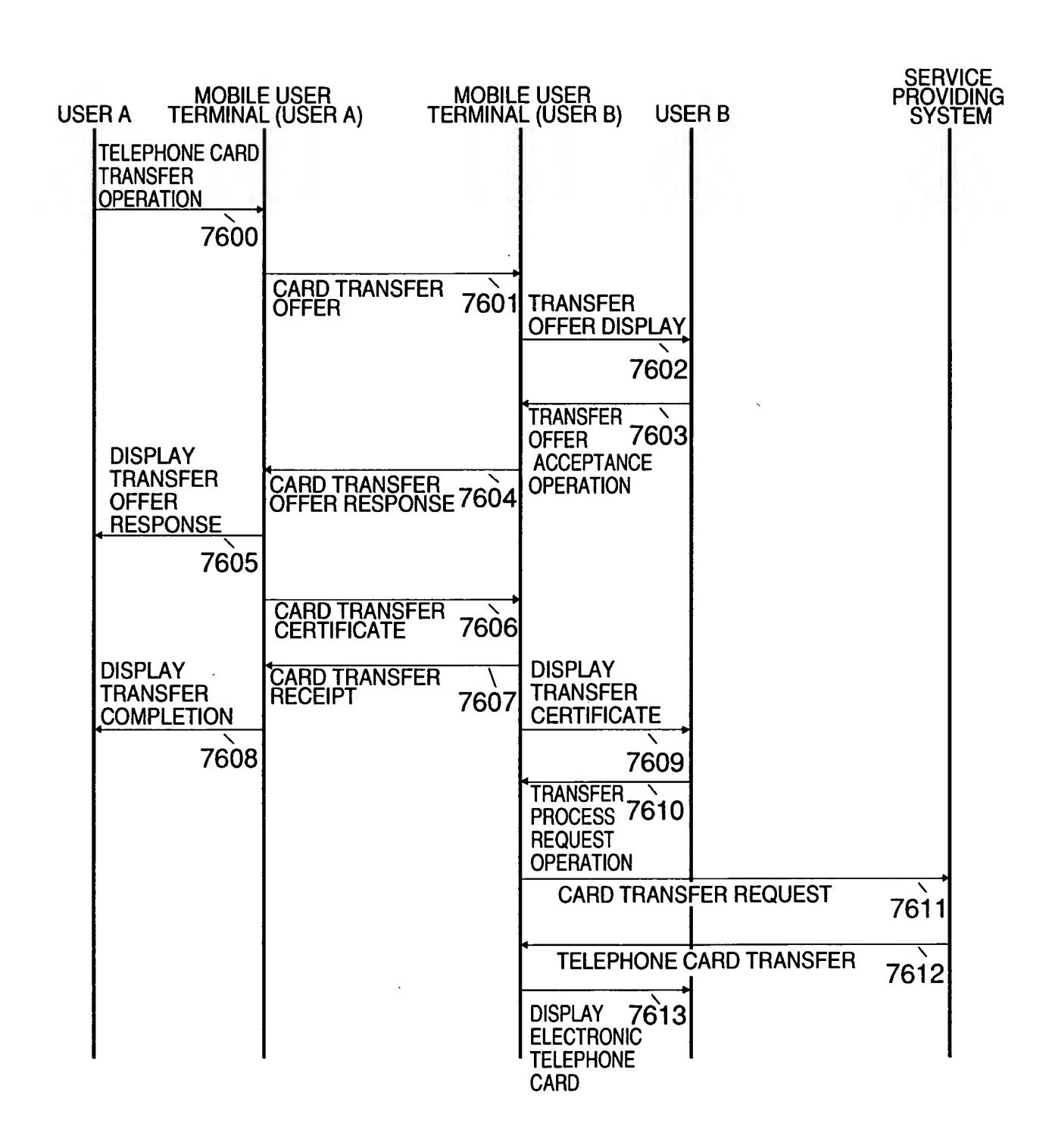
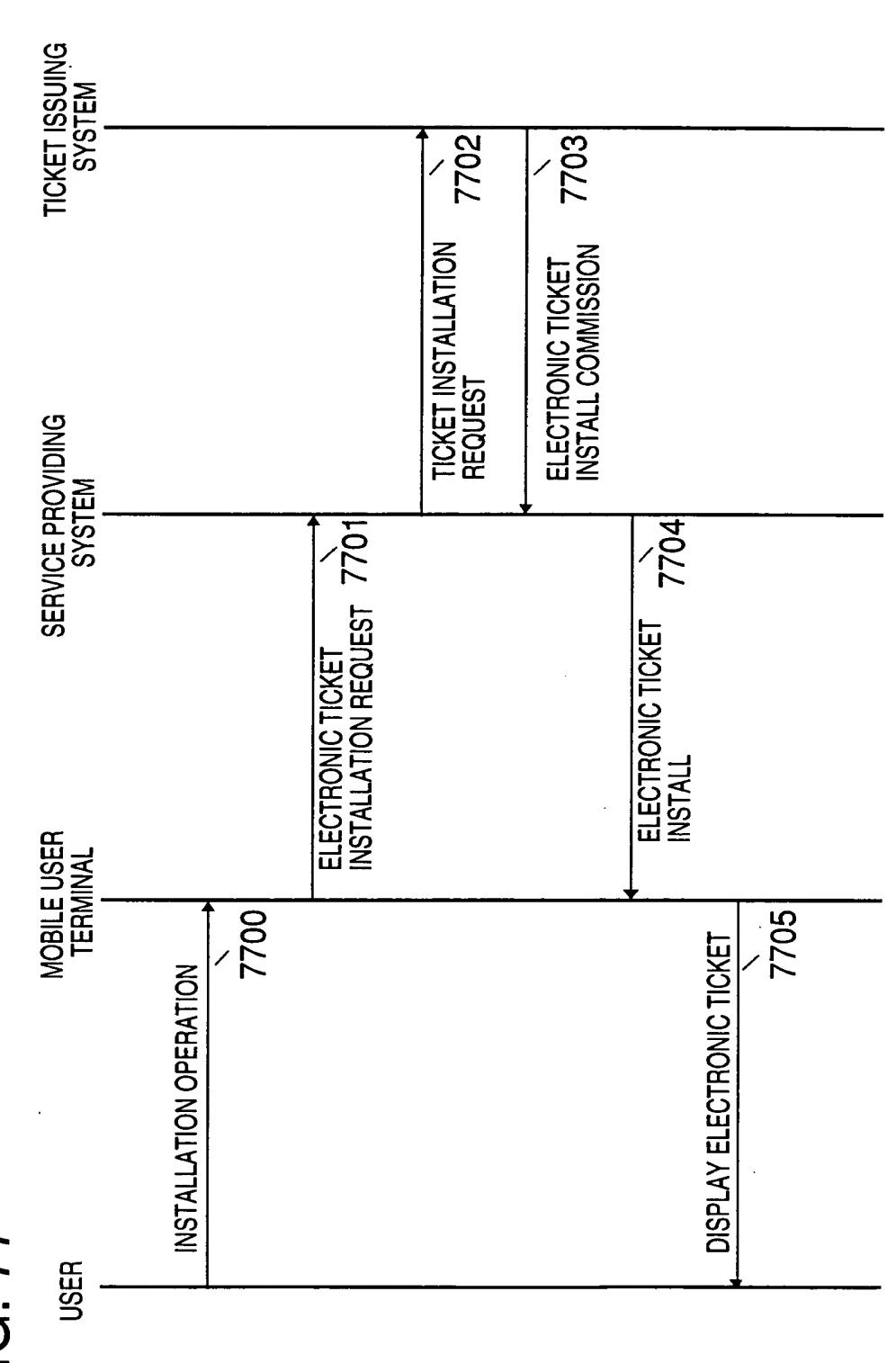


FIG. 76



77 (



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FIG. 78

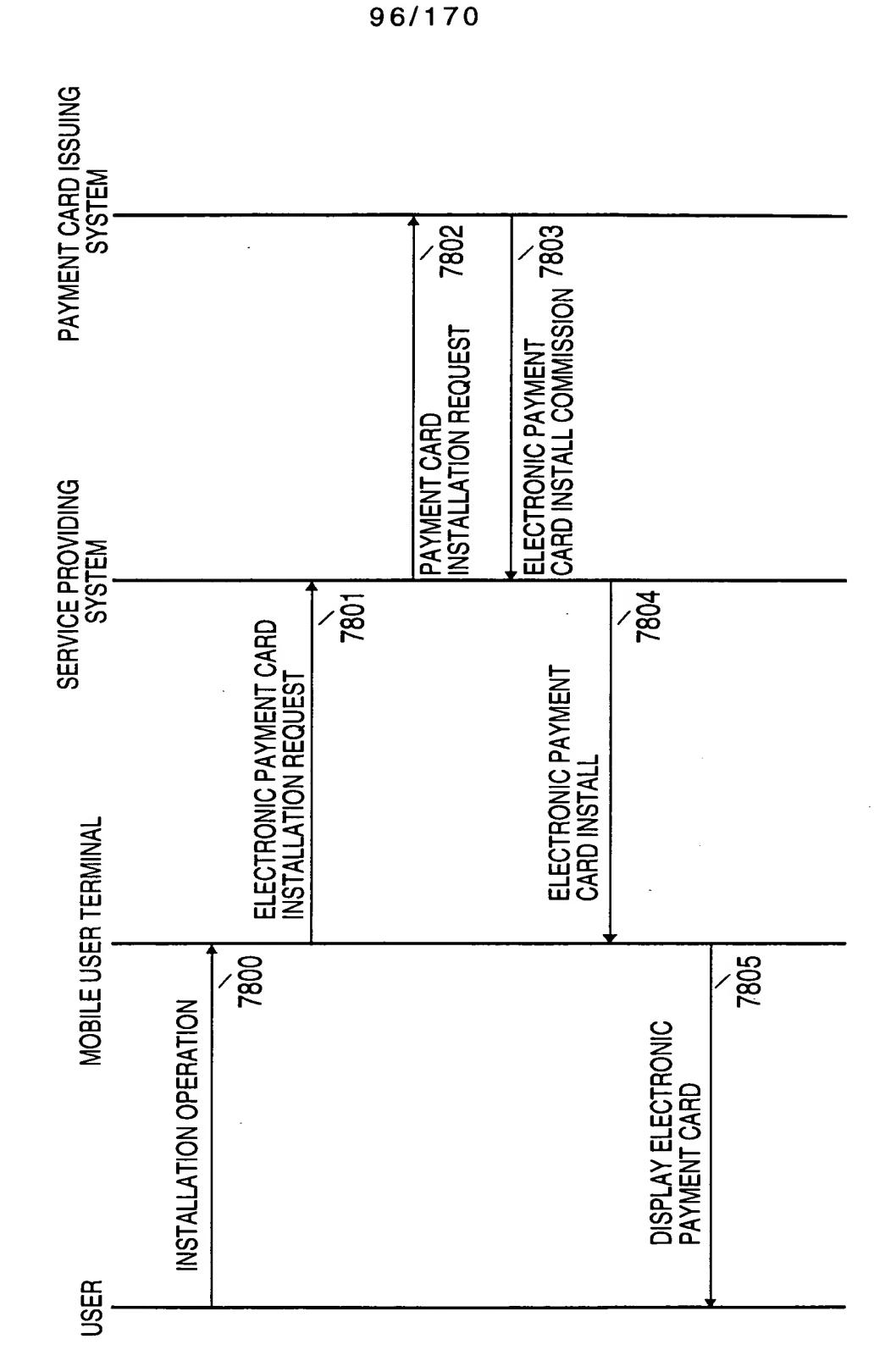


FIG. 79

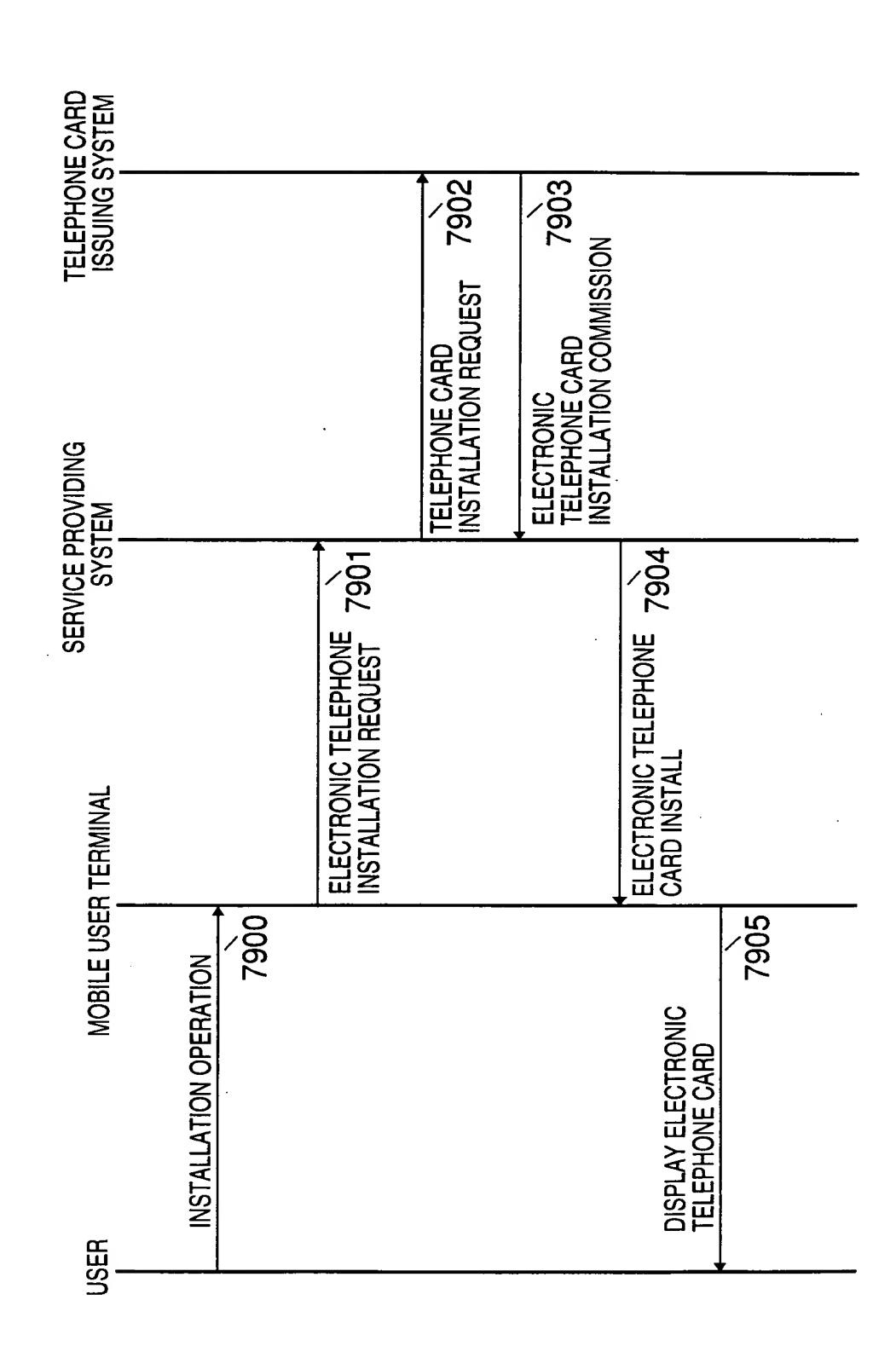


FIG. 80

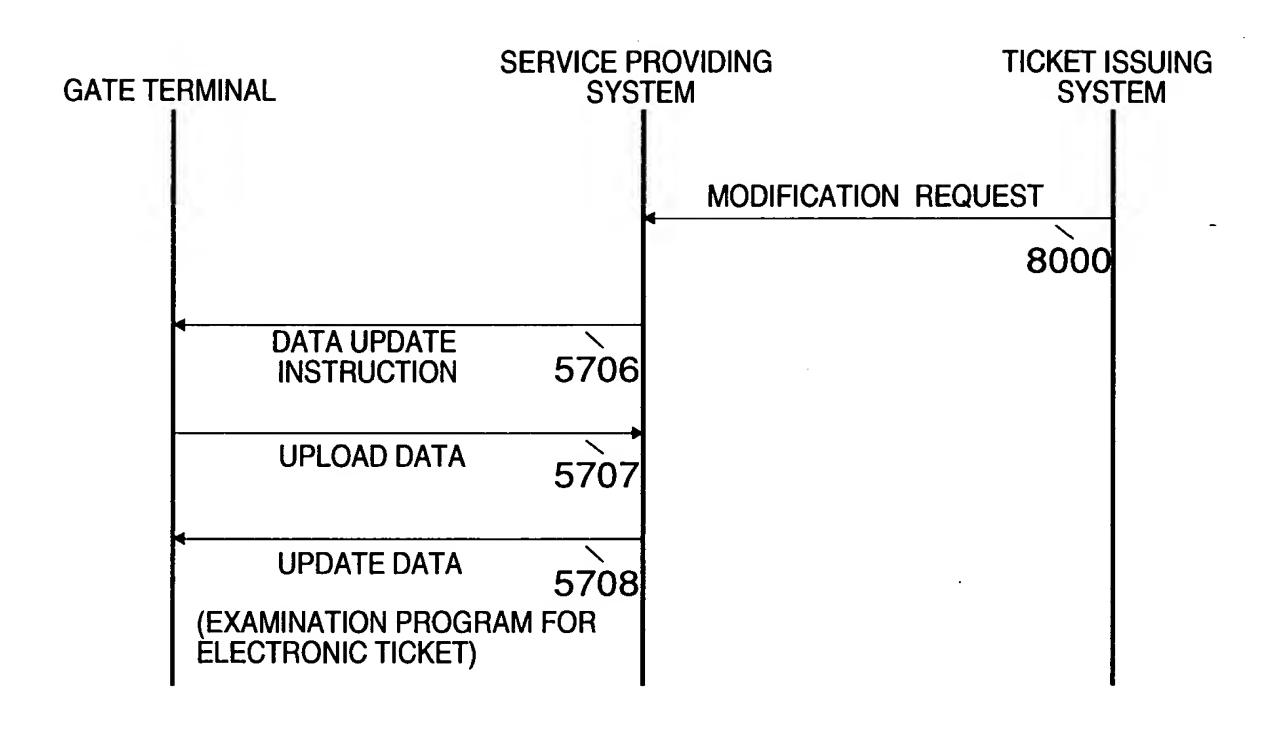


FIG. 81

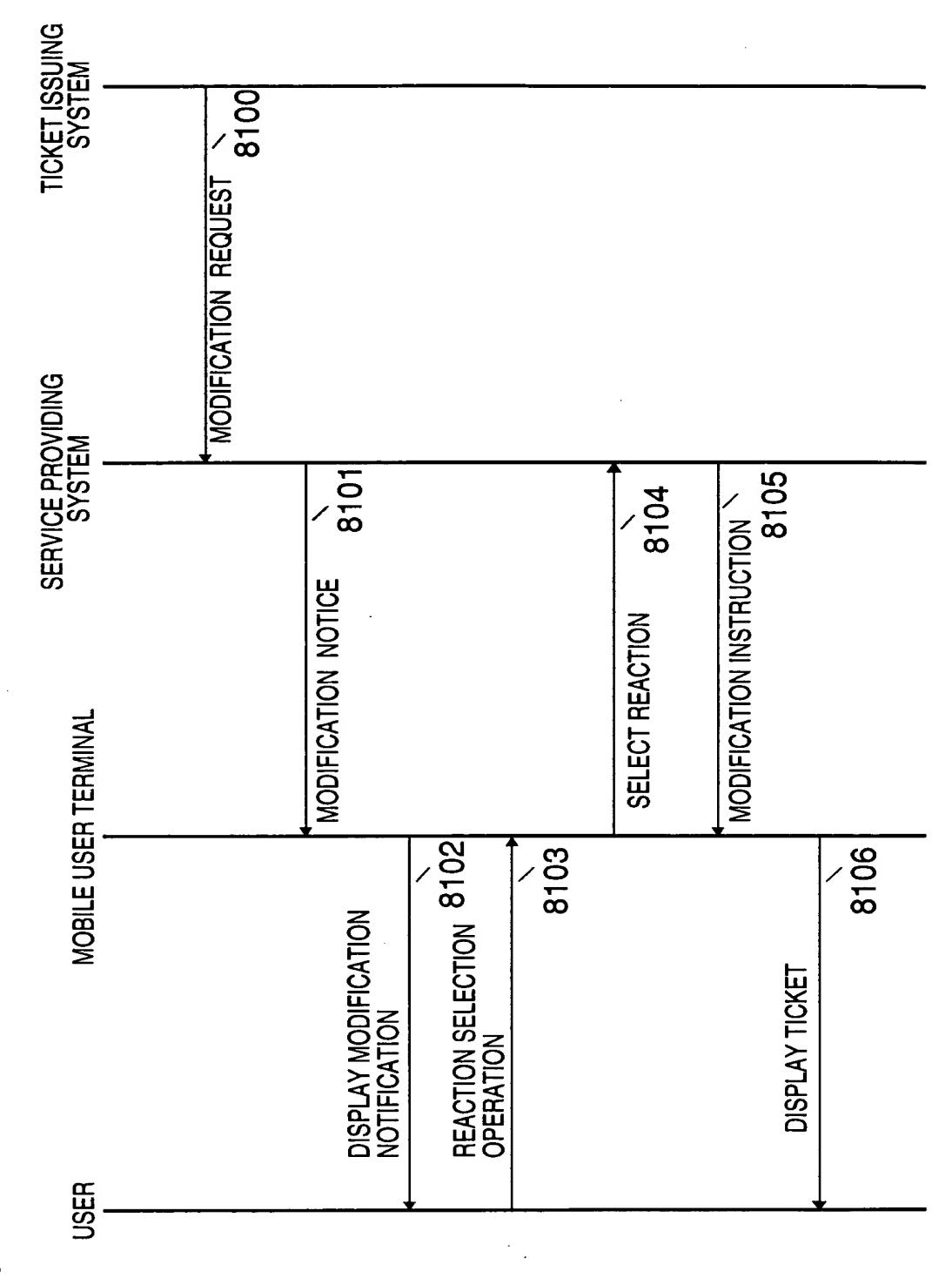
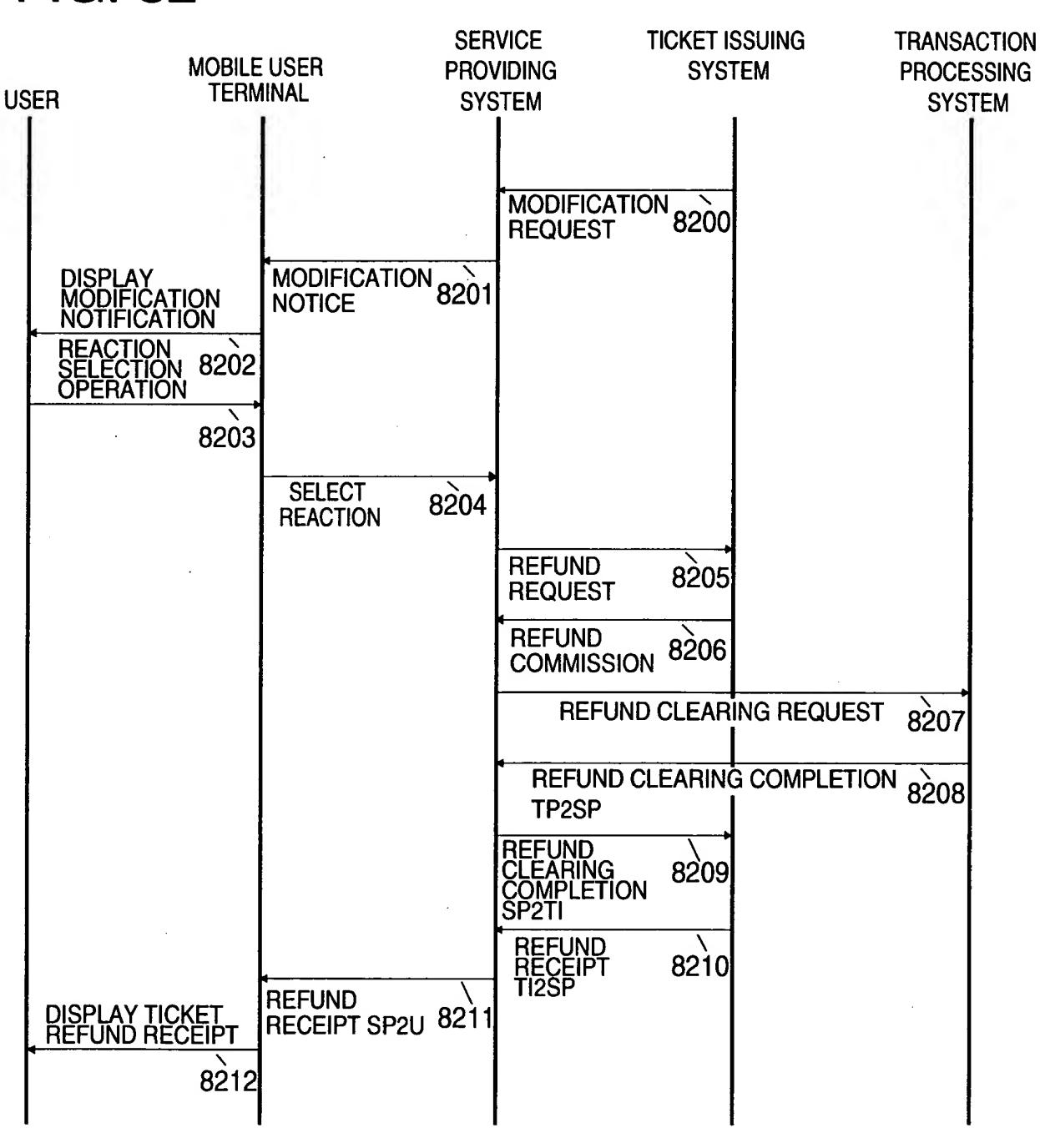




FIG. 82



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FIG. 83

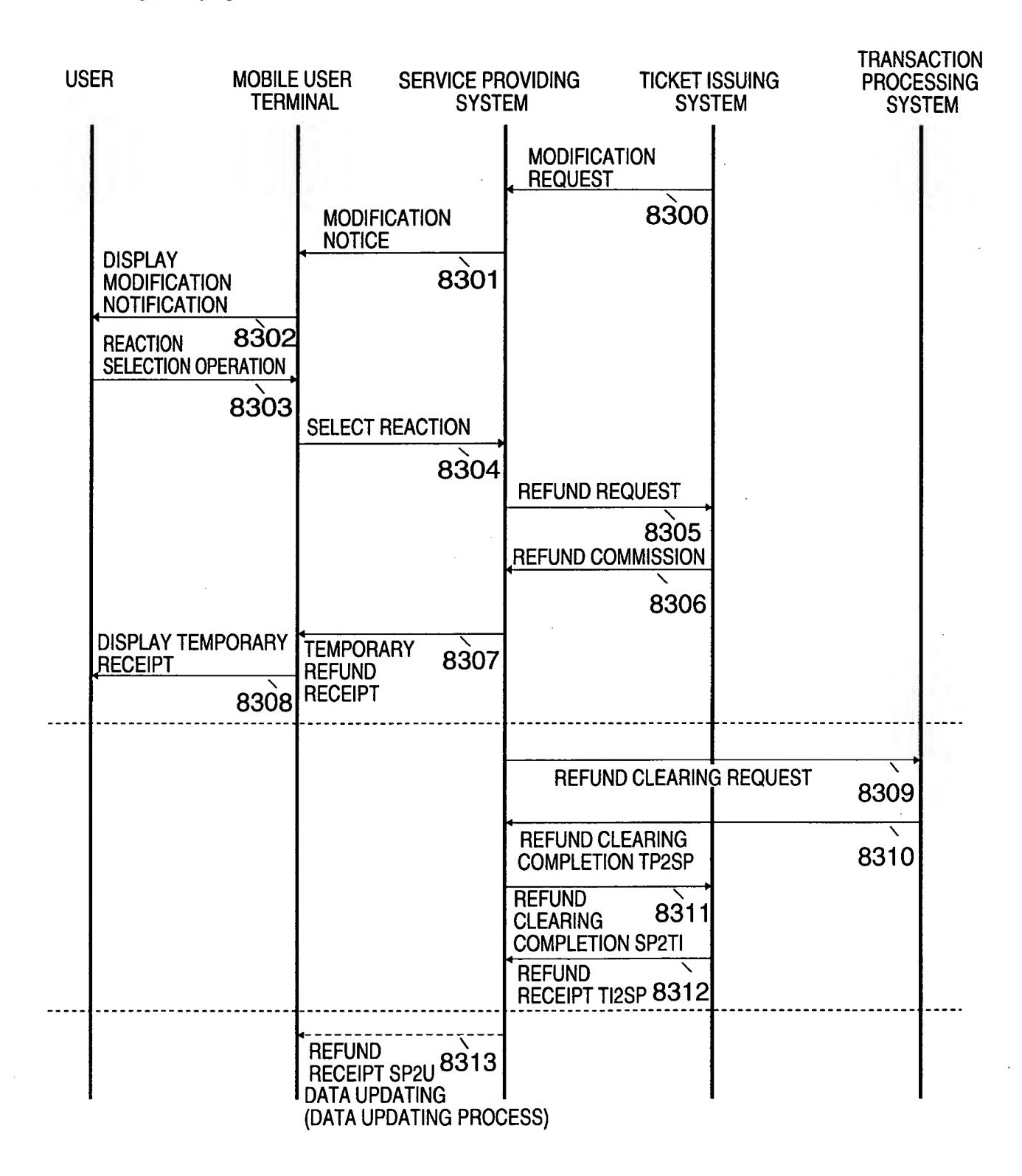
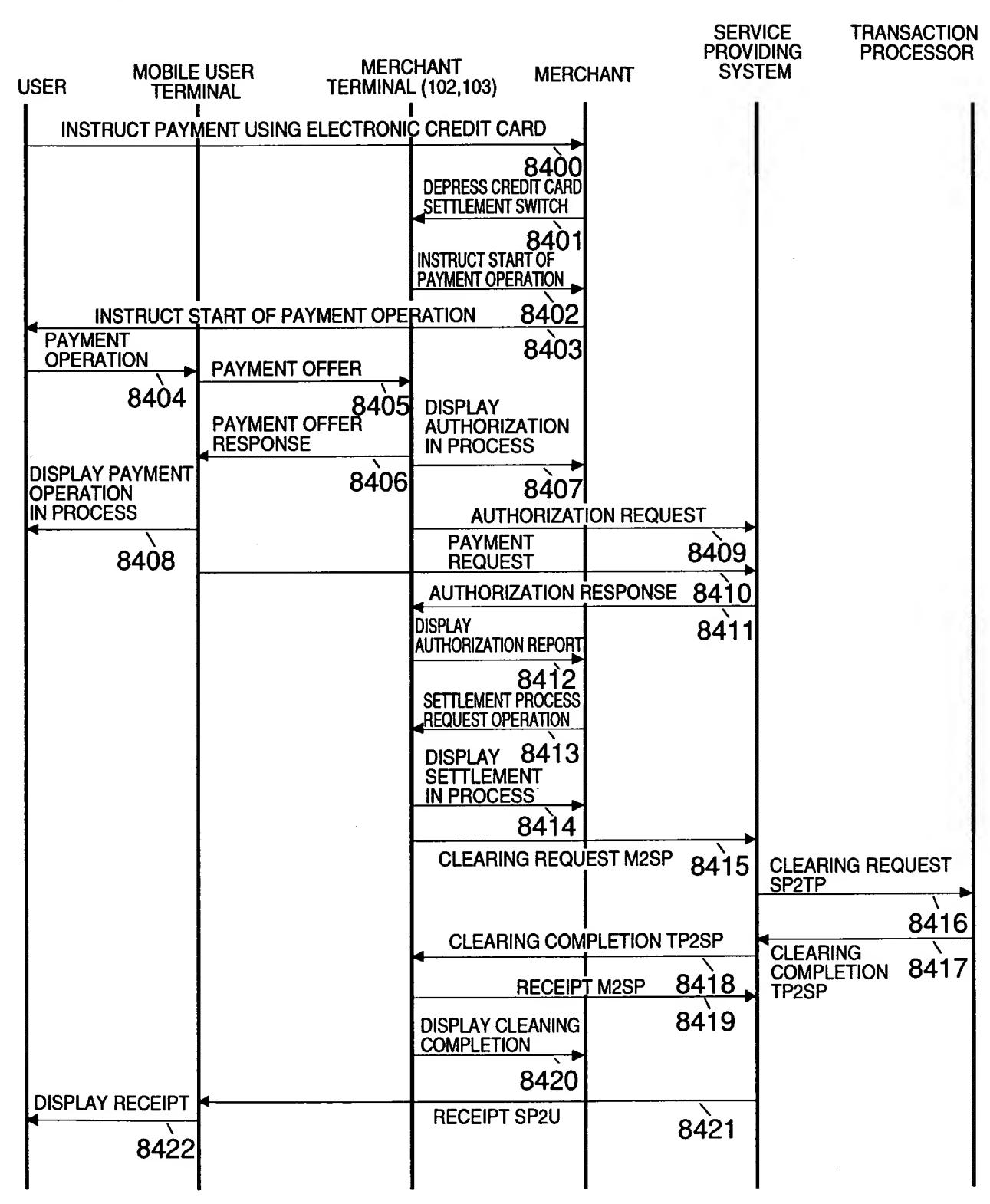




FIG. 84



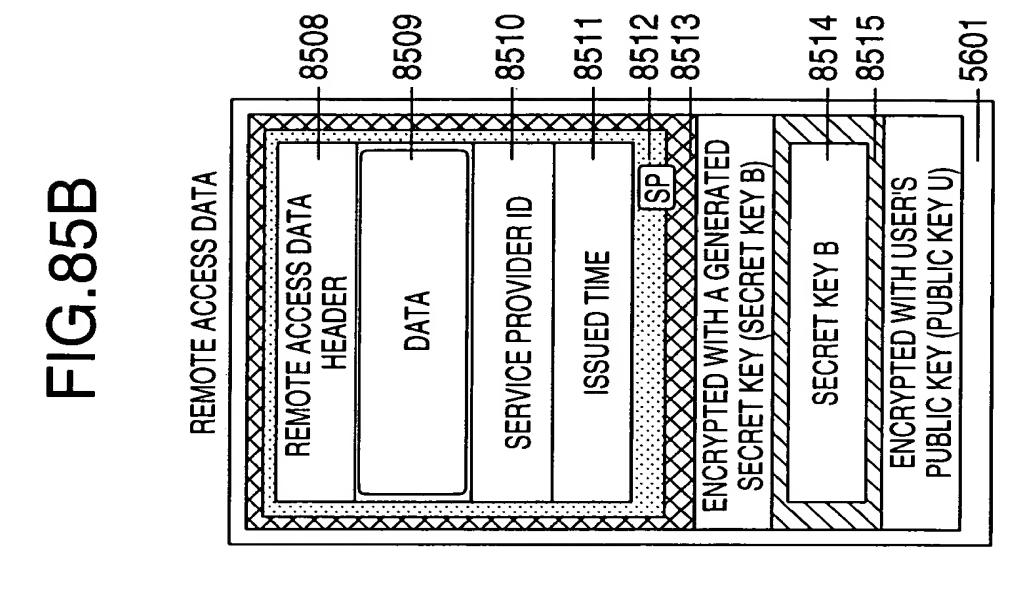


FIG.85A

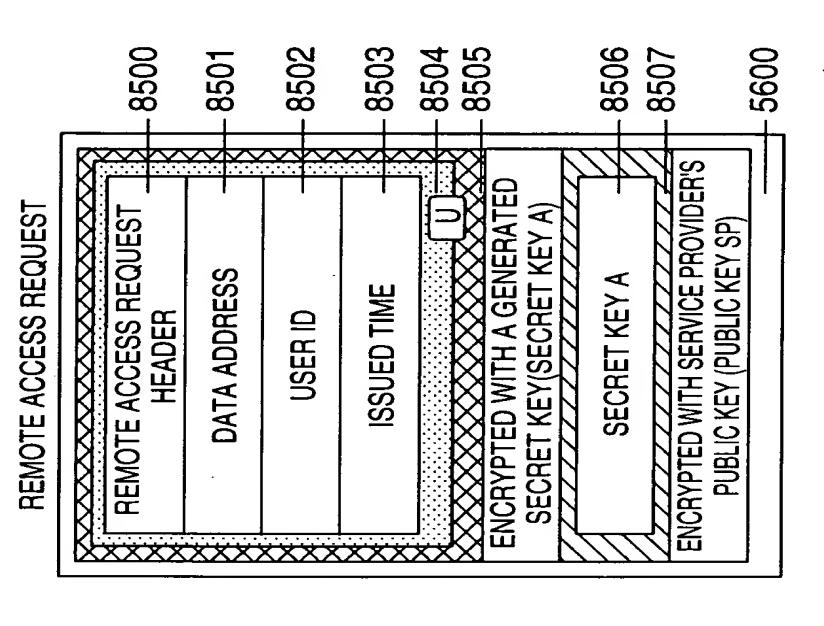
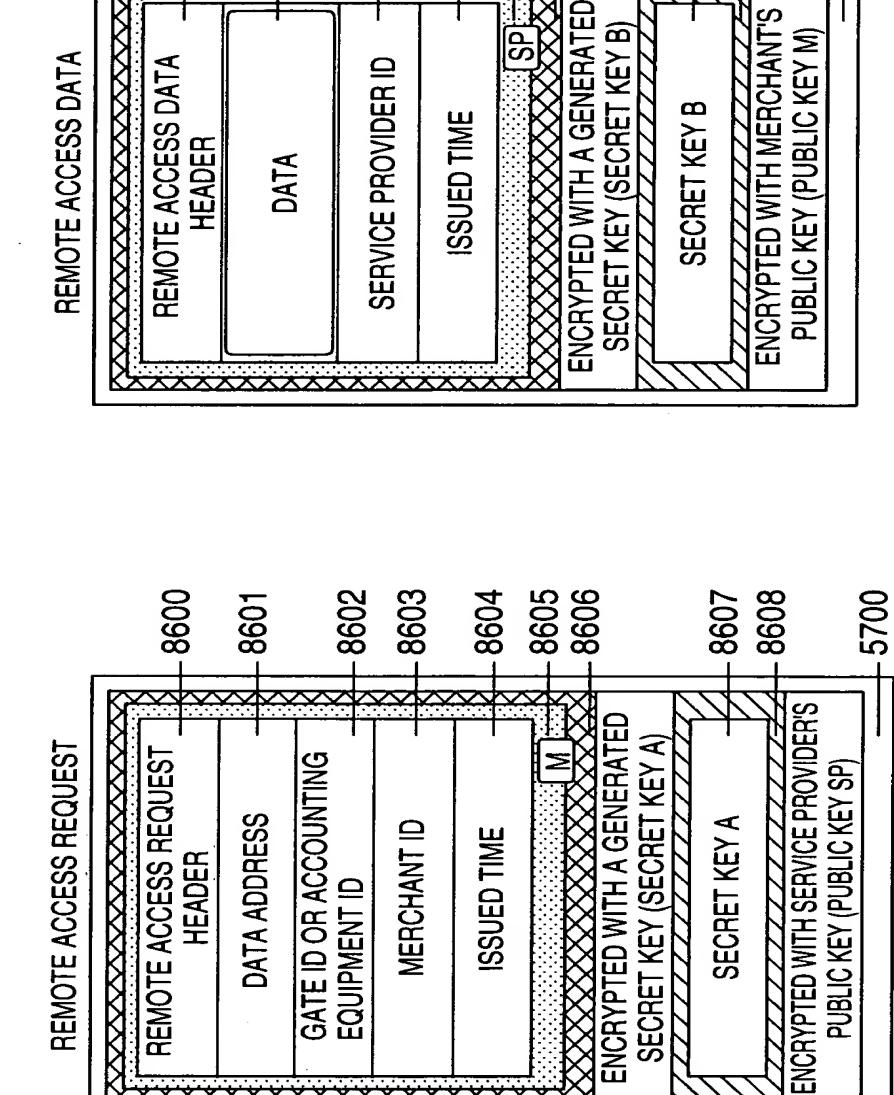


FIG.86A

FIG.86B



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8613

8614

8612

8611

8616

5701

8615

8609

FIG.87C

G.87B

FIG.87A

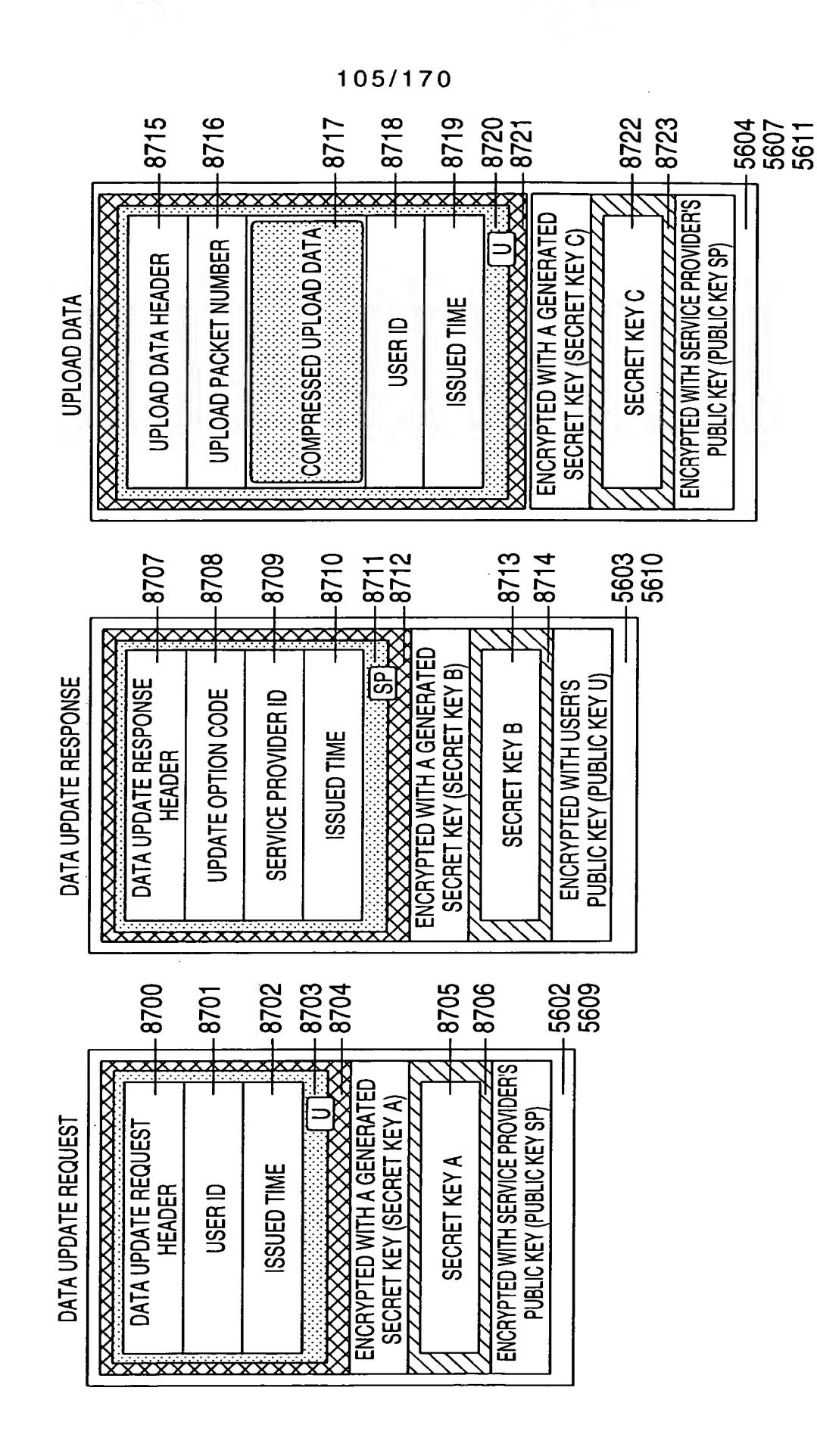


FIG.87F

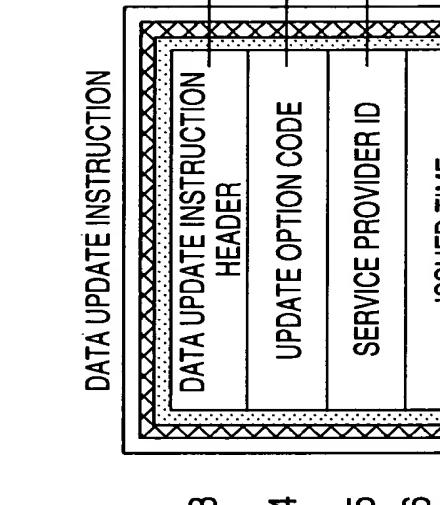
FIG.87D

G.87E

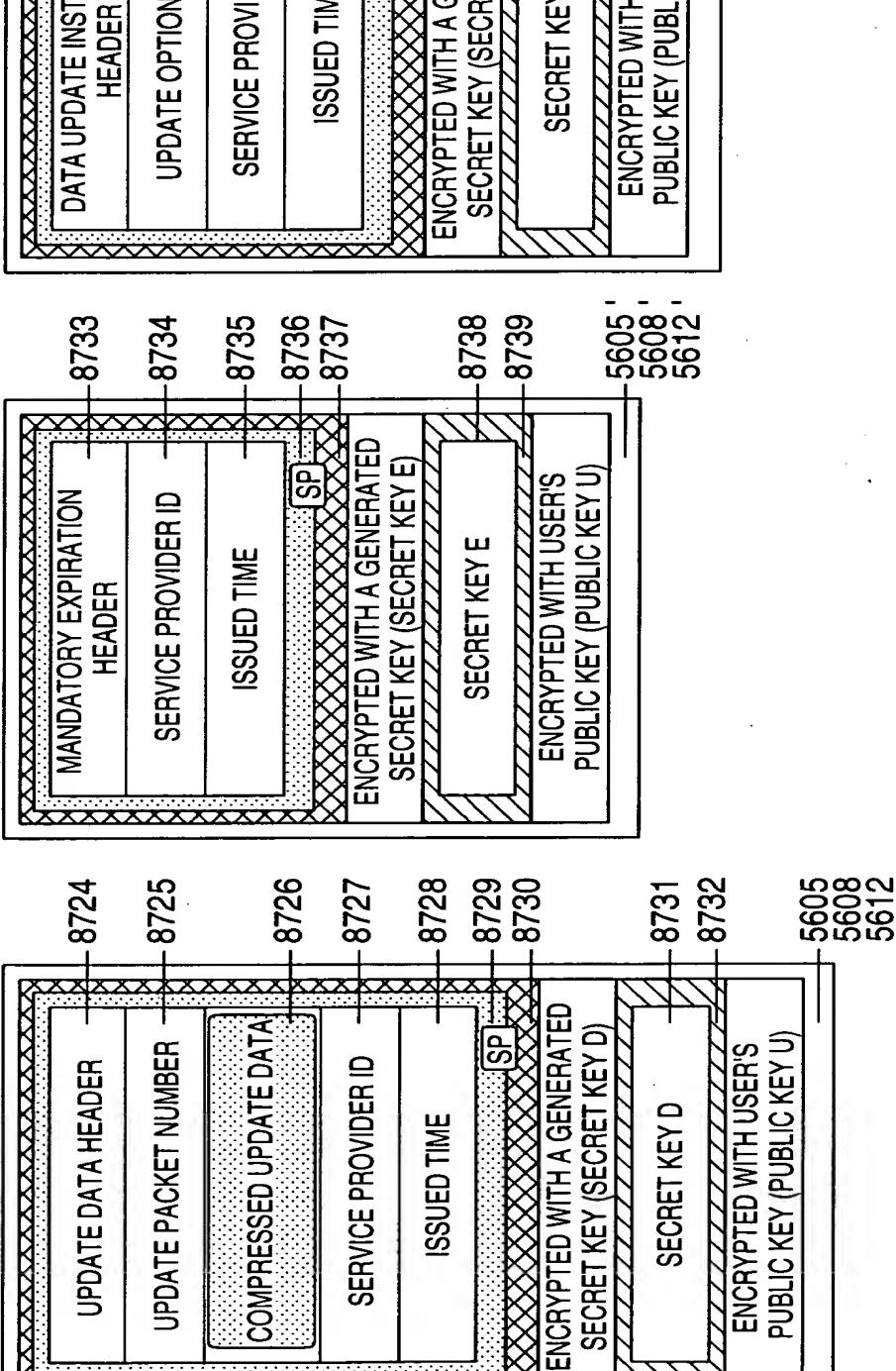
MANDATORY EXPIRATION

UPDATE DATA

:5



5606 8742 8743 8744 8745 8747 8741 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY F PUBLIC KEY (PUBLIC KEY U) **ENCRYPTED WITH USER'S** SECRET KEY F ISSUED TIME



8825

ENCRYPTED WITH SERVICE PROVIDER'S

PUBLIC KEY (PUBLIC KEY SP)

5704 5707 5711

8824

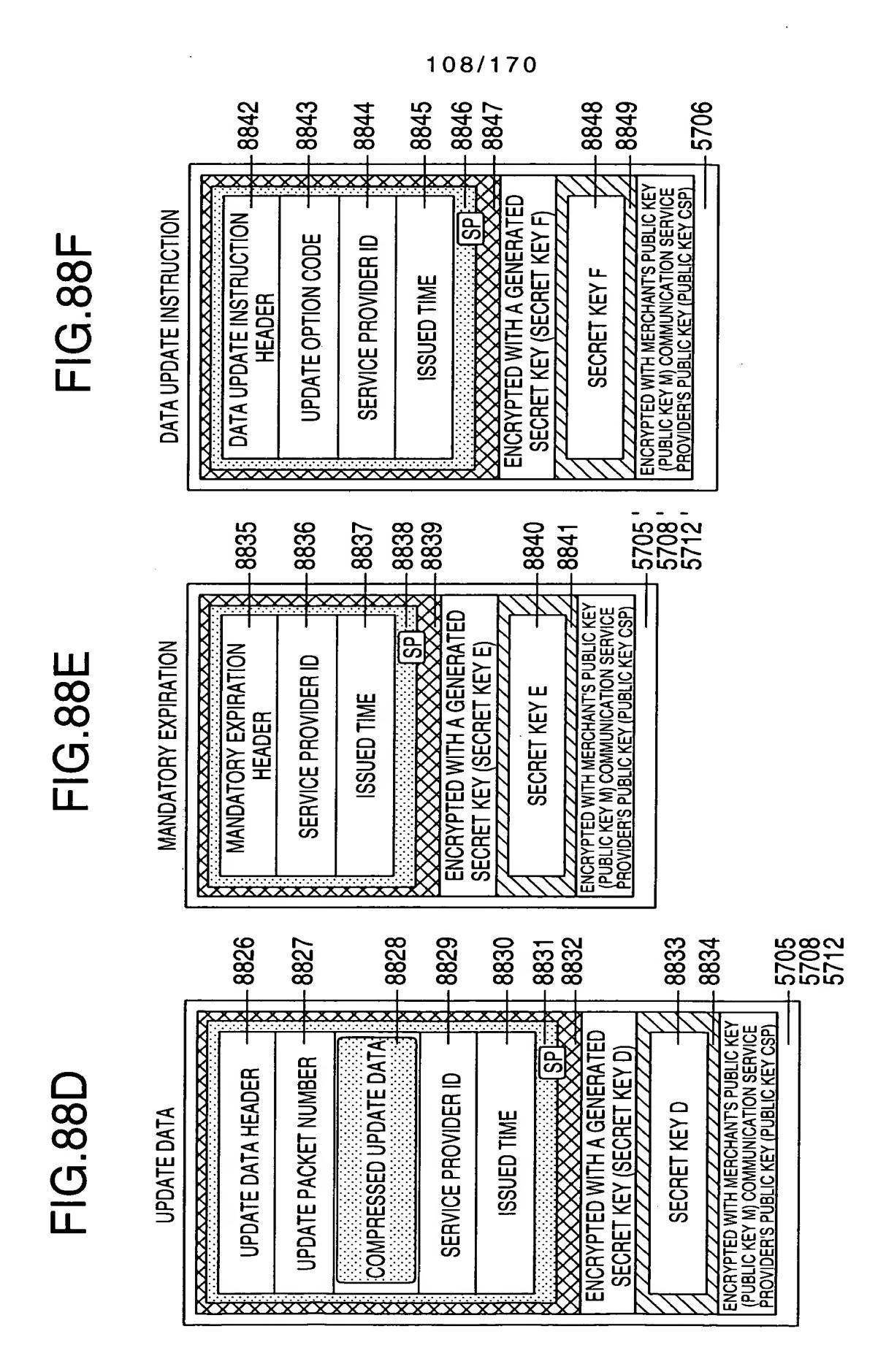
SECRET KEY C

8816 8822 8823 8819 8820 8818 8817 8821 **ENCRYPTED WITH A GENERATED** CATION SERVICE PROVIDER ID COMPRESSED UPLOAD DATA SECRET KEY (SECRET KEY C) MERCHANT ID OR COMMUNI **UPLOAD PACKET NUMBER** GATE ID OR ACCOUNTING FIG.88C UPLOAD DATA HEADER XXXXXXXXXXX **EQUIPMENT ID** ISSUED TIME **UPLOAD DATA** 5703 5710 8812 8813 8815 8808 8809 8814 8810 881 ENCRYPTED WITH MERCHANT'S PUBLIC KEY (PUBLIC KEY M) COMMUNICATION SERVICE PROVIDER'S PUBLIC KEY (PUBLIC KEY CSP) ITH A GENERATED (SECRET KEY B) DATA UPDATE RESPONSE DATA UPDATE RESPONSE FIG.88B UPDATE OPTION CODE PROVIDER ID SECRET KEY B **IED TIME** HEADER ISSU XXXXXX SERVICE **ENCRYPTED W** SECRET KEY 5702 5709 8800 8802 8803 8804 8805 8806 8807 8801 **ENCRYPTED WITH SERVICE PROVIDER'S** ENCRYPTED WITH A GENERATED CATION SERVICE PROVIDER ID MERCHANT ID OR COMMUNI-SECRET KEY (SECRET KEY A) GATE ID OR ACCOUNTING PUBLIC KEY (PUBLIC KEY SP) DATA UPDATE REQUEST FIG.88A DATA UPDATE REQUEST **EQUIPMENT ID** SECRET KEY A **ISSUED TIME** HEADER

, 4 4

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10 C



5802

FIG.89A

TICKET ORDER U2SP

FIG.89B

		-8912	-8913	-8914	-8915	-8916	-8917
TICKET ORDER SP2TI	XX	TICKET ORDER SP2TI HEADER	TICKET ORDER CODE	DATE OF TICKET	NUMBER OF TICKETS	REQUEST NUMBER	CUSTOMER NUMBER

	TICKET ORDER SP2TI HEAD	TICKET ORDER CODE	DATE OF TICKET	NUMBER OF TICKETS	REQUEST NUMBER	CUSTOMER NUMBER	SERVICE PROVIDER ID	ISSUED TIME	<u> S </u>	ENCRYPTED WITH A GENERAL SECRET KEY (SECRET KEY B	ENCRYPTED WITH TICKET ISSU PUBLIC KEY (PUBLIC KEY TI	
XX	$\Delta \Delta \Delta$	XXX	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	XXX/	\XXX	XXX			\times		777	7=	

8918

8920 8921

8919

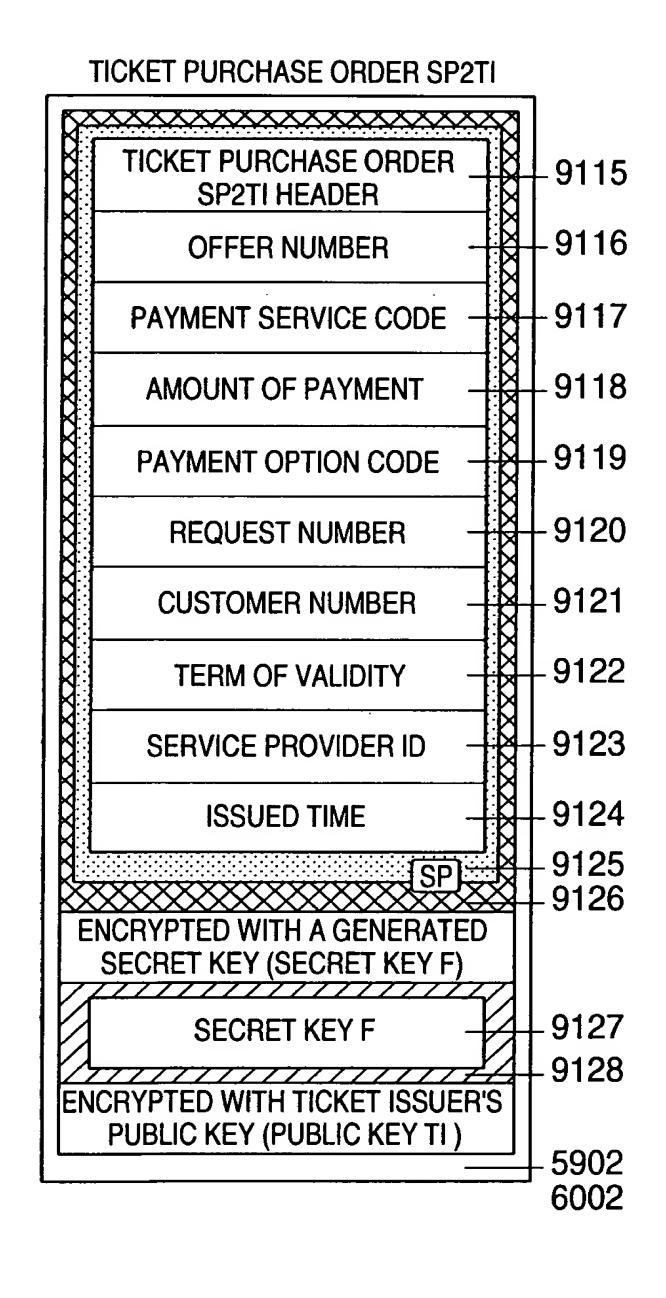
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8900	-8901	-8902	- 8903	-8904	-8905	9068 –	-8907	- 8908 - 8909		-8910	- 8911	- 5801
TICKET ORDER U2SP HEADER	SERVICE CODE	TICKET ORDER CODE	DATE OF TICKET	NUMBER OF TICKETS	REQUEST NUMBER	WSER ID	ISSUED TIME		ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY A)	SECRET KEY A	ENCRYPTED WITH SERVICE PROVIDER'S	PUBLIC KEY (PUBLIC KEY SP)

TICKET ORDER RESPONSE SP2U	TICKET ORDER RESPONSE SP2U HEADER	RESPONSE CODE	ORDER MESSAGE	REQUEST NUMBER 8017	TICKET SALES OFFER		OFFER NUMBER 3019	TERM OF VALIDITY 8020	SERVICE PROVIDER ID	ISSUED TIME 189022	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY D)	Million	SECRET KEY D 44 9025	ENCRYPTED WITH USER'S	PUBLIC KEY (PUBLIC KEY U)
FIG 90A TICKET ORDER RESPONSE TI2SP FIG 90R	TICKET ORDER RESPONSE S 9000 TI2SP HEADER	RESPONSE CODE	REQUEST NUMBER 9002	CUSTOMER NUMBER	TICKET SALES OFFER 19004	OFFER NUMBER 9005	TERM OF VALIDITY 9006	TICKET ISSUER ID 484 9007	ISSUED TIME		PTED WITH A GE		SECRET KEY C 7 9012	ENCRYPTED WITH SERVICE PROVIDER'S	C KEY (PUBLIC KEY SP.)	5803

FIG.91B

TICKET PURCHASE ORDER U2SP TICKET PURCHASE ORDER 9100 **U2SP HEADER** 9101 SERVICE CODE 9102 TICKET SALES OFFER XXXXXXXXXXXXXXX -9103 OFFER NUMBER -9104 PAYMENT SERVICE CODE 9105 **AMOUNT OF PAYMENT** -9106 PAYMENT OPTION CODE | 9107 REQUEST NUMBER 9108 TERM OF VALIDITY 9109 **USER ID** -9110 **ISSUED TIME** 9111 9112 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY E) 9113 SECRET KEY E 9114 **ENCRYPTED WITH SERVICE PROVIDER'S** PUBLIC KEY (PUBLIC KEY SP) 5901



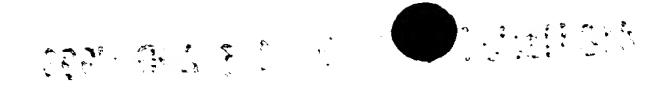
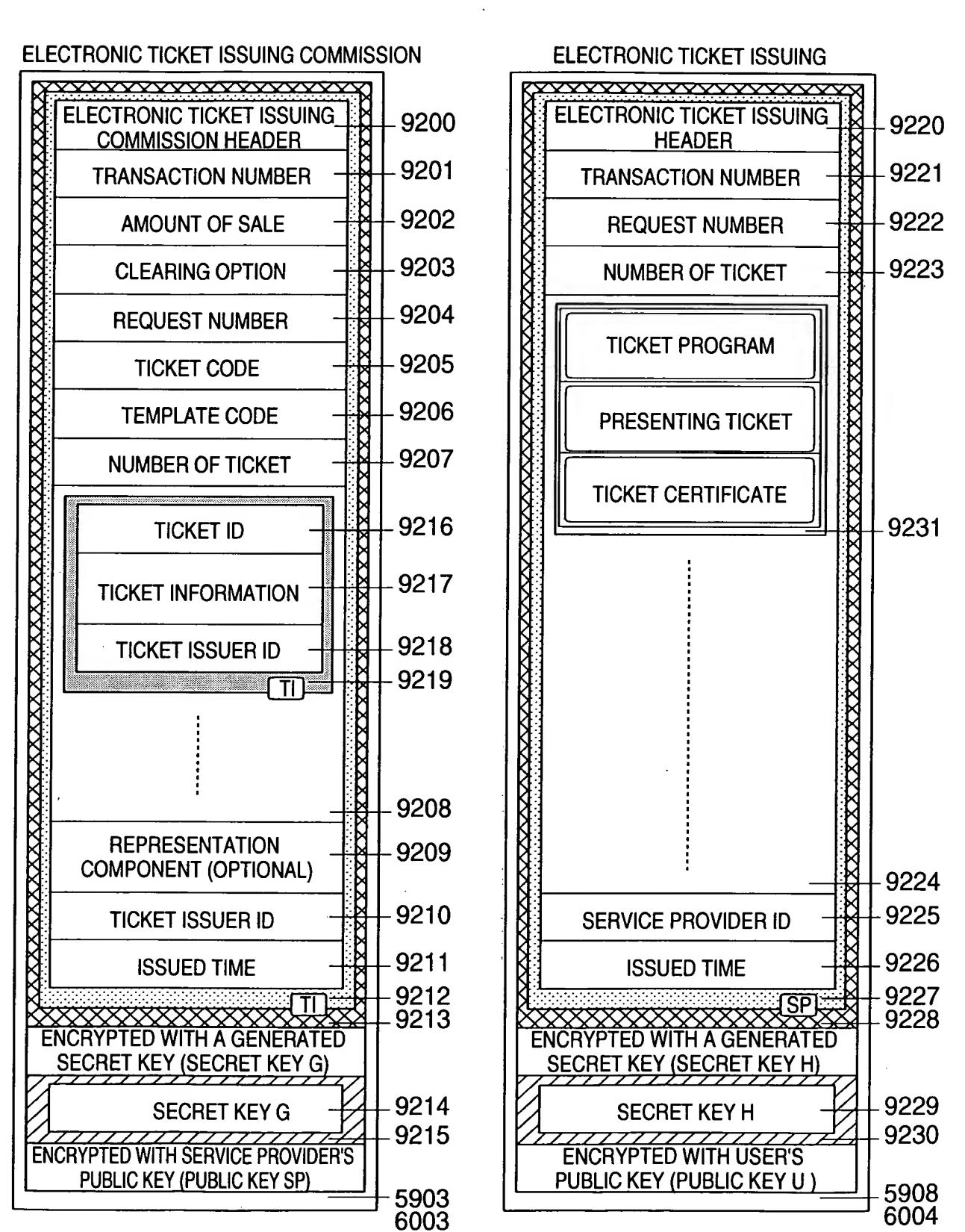


FIG.92A

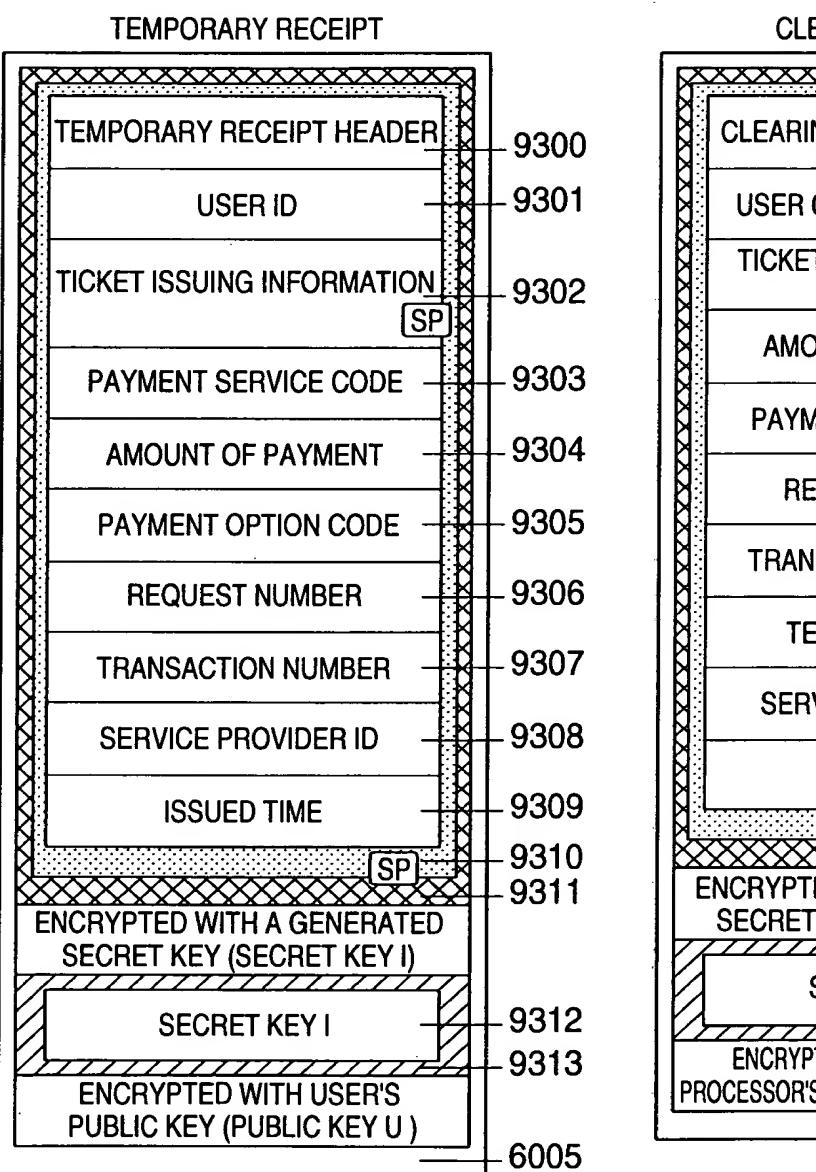
FIG.92B



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FIG.93A

FIG.93B



CLEARING REQUEST CLEARING REQUEST HEADER 9314 9315 **USER CLEARING ACCOUNT** TICKET ISSUER CLEARING 9316 **ACCOUNT** 9317 **AMOUNT OF PAYMENT** 9318 PAYMENT OPTION CODE 9319 REQUEST NUMBER 9320 TRANSACTION NUMBER 9321 **TERM OF VALIDITY** -9322 SERVICE PROVIDER ID 9323 **ISSUED TIME** 9324 SP 9325 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY J) 9326 SECRET KEY J 9327 **ENCRYPTED WITH TRANSACTION** PROCESSOR'S PUBLIC KEY (PUBLIC KEY TP) 5904 6007

FIG.94A

FIG.94B

CLEARING COMPLETION TP2SP imes ime**CLEARING COMPLETION TP2SP** 9400 **HEADER** 9401 **CLEARING NUMBER** 9402 **USER CLEARING ACCOUNT** TICKET ISSUER CLEARING 9403 **ACCOUNT** 9404 **AMOUNT OF PAYMENT** 9405 PAYMENT OPTION CODE 9406 **REQUEST NUMBER** 9407 TRANSACTION NUMBER 9408 **CLEARING INFORMATION 2SP** 9409 **CLEARING INFORMATION 2TI** 9410 **CLEARING INFORMATION 2U** 9411 **CLEARING PROCESSOR ID** 9412 **ISSUED TIME** 9413 9414 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY K) 9415 SECRET KEY K 9416 **ENCRYPTED WITH SERVICE PROVIDER'S** PUBLIC KEY (PUBLIC KEY SP) 5905

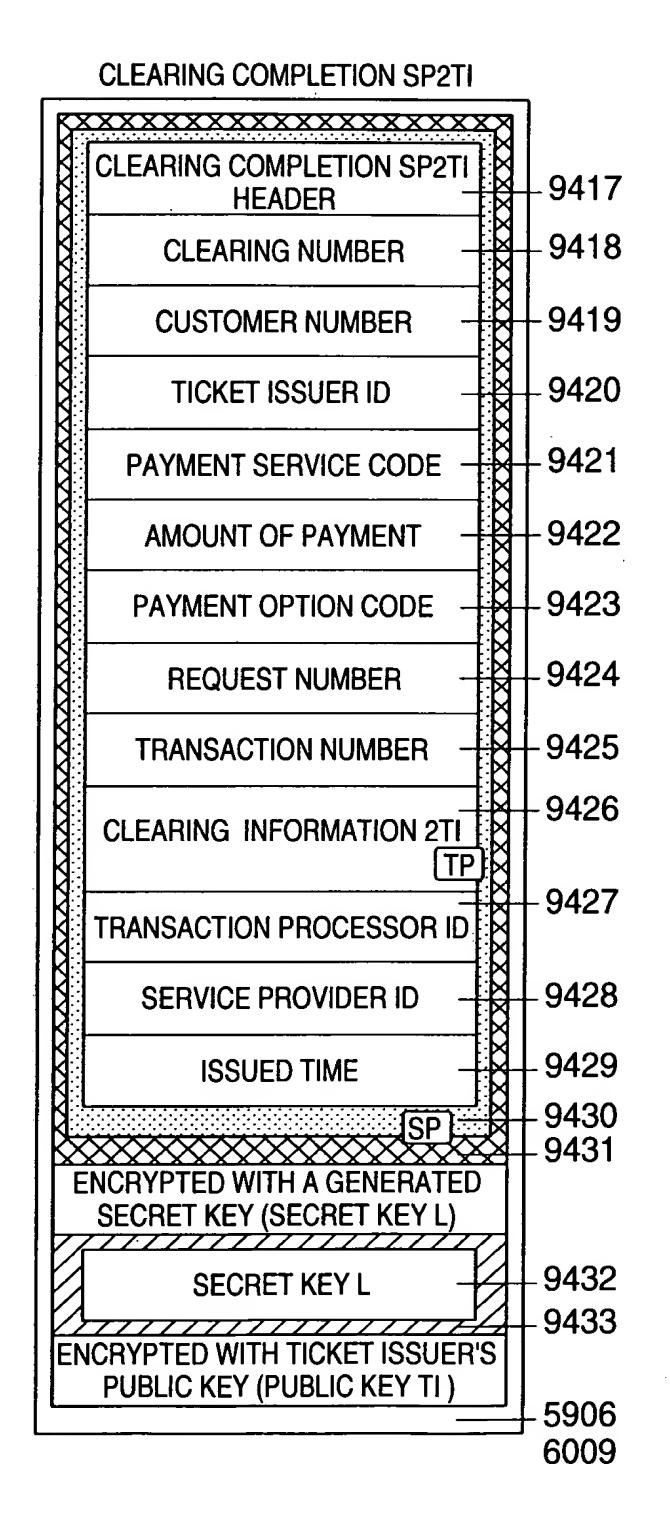
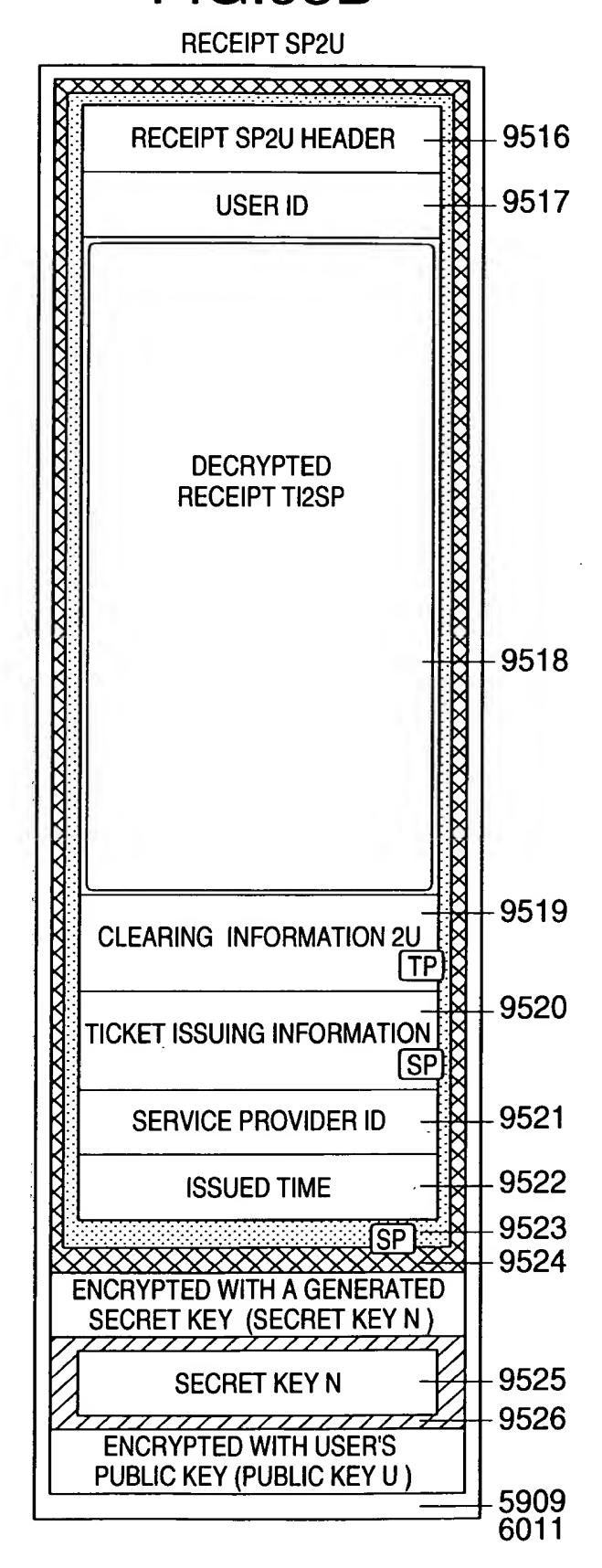




FIG.95A

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RECEIPT TI2SP $oldsymbol{ imes} imes ime$ 9500 RECEIPT TI2SP HEADER 9501 **CUSTOMER NUMBER** 9502 TICKET ISSUING INFORMATION 9503 PAYMENT SERVICE CODE 9504 **AMOUNT OF PAYMENT** 9505 PAYMENT OPTION CODE 9506 **REQUEST NUMBER** 9507 TRANSACTION NUMBER 9508 **CLEARING NUMBER** 9509 TRANSACTION PROCESSOR ID 9510 TICKET ISSUER ID 9511 **ISSUED TIME** 9512 9513 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY M) 9514 SECRET KEY M 9515 **ENCRYPTED WITH SERVICE PROVIDER'S** PUBLIC KEY (PUBLIC KEY SP) 5907 6010



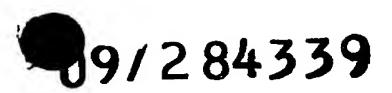


FIG.96A

FIG.96B

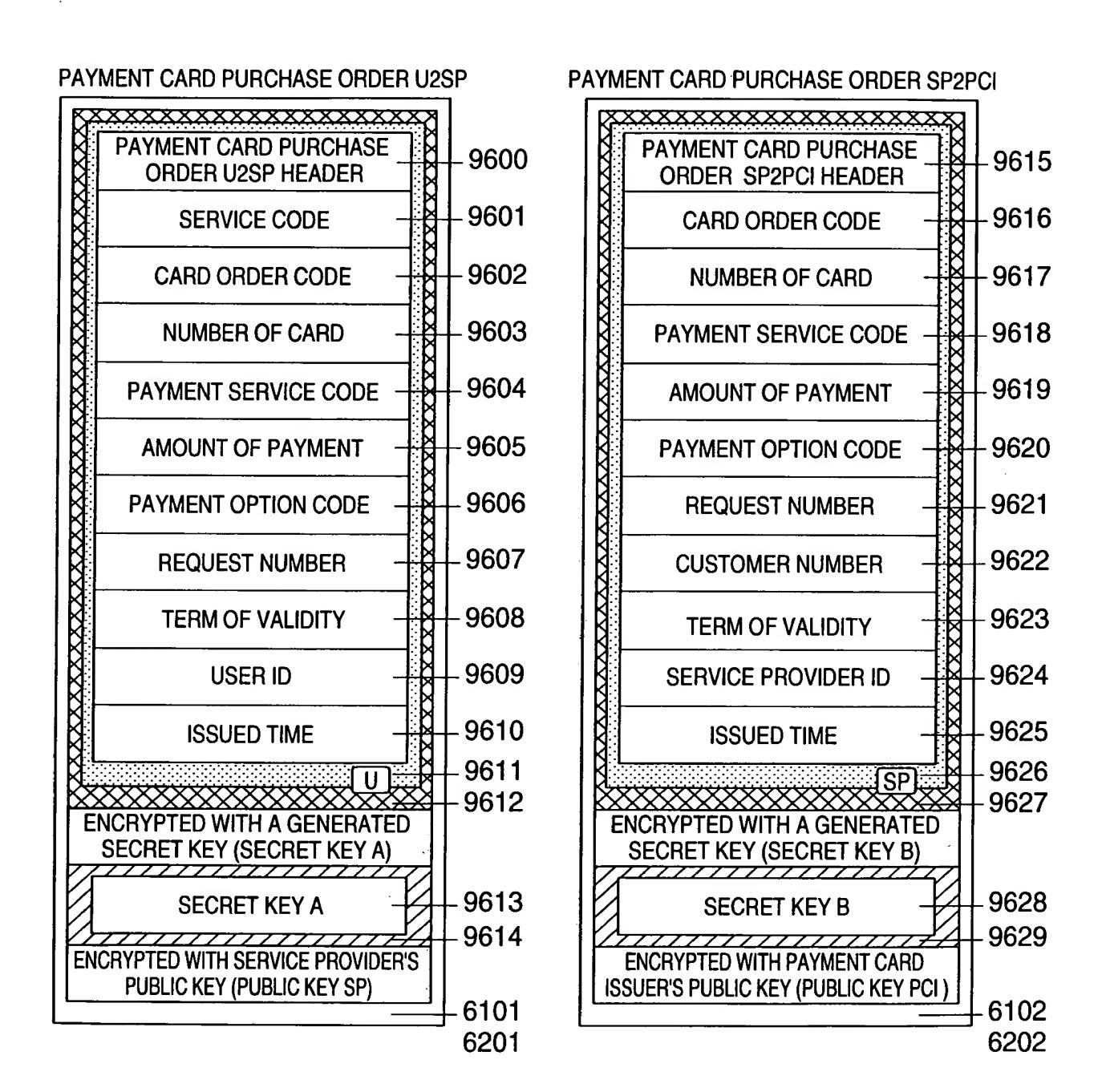
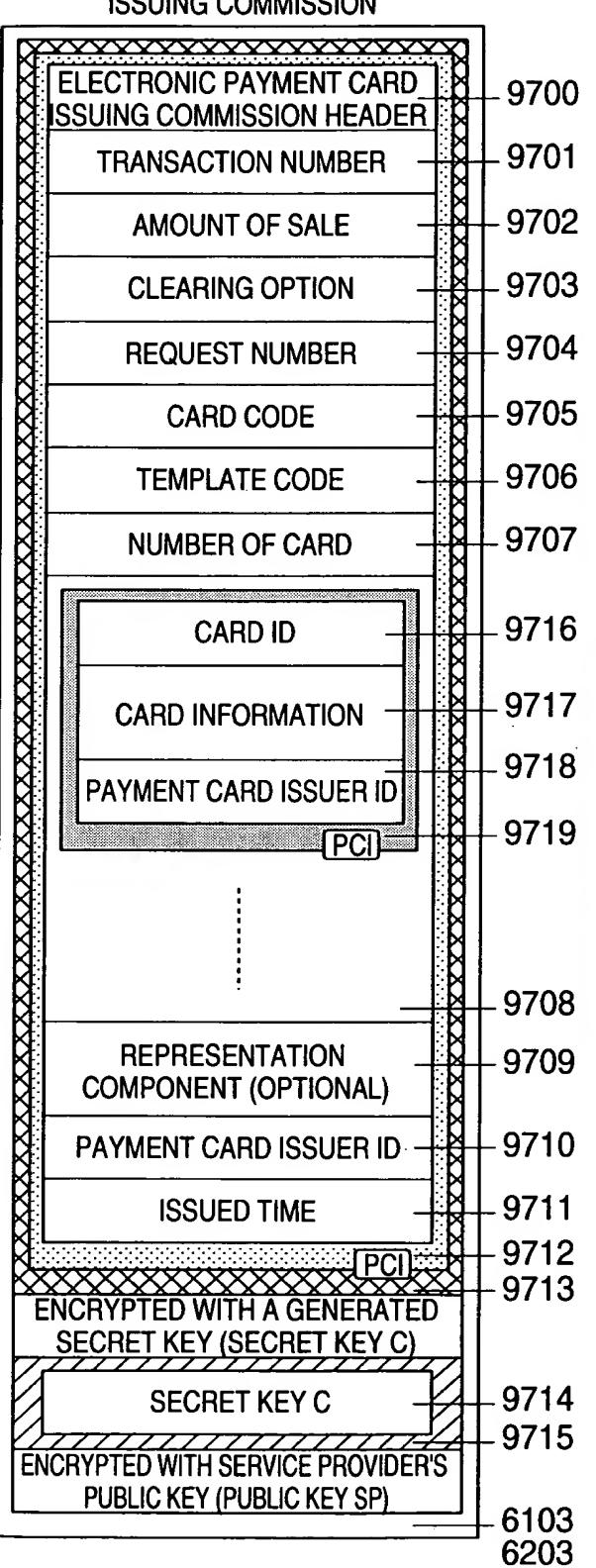


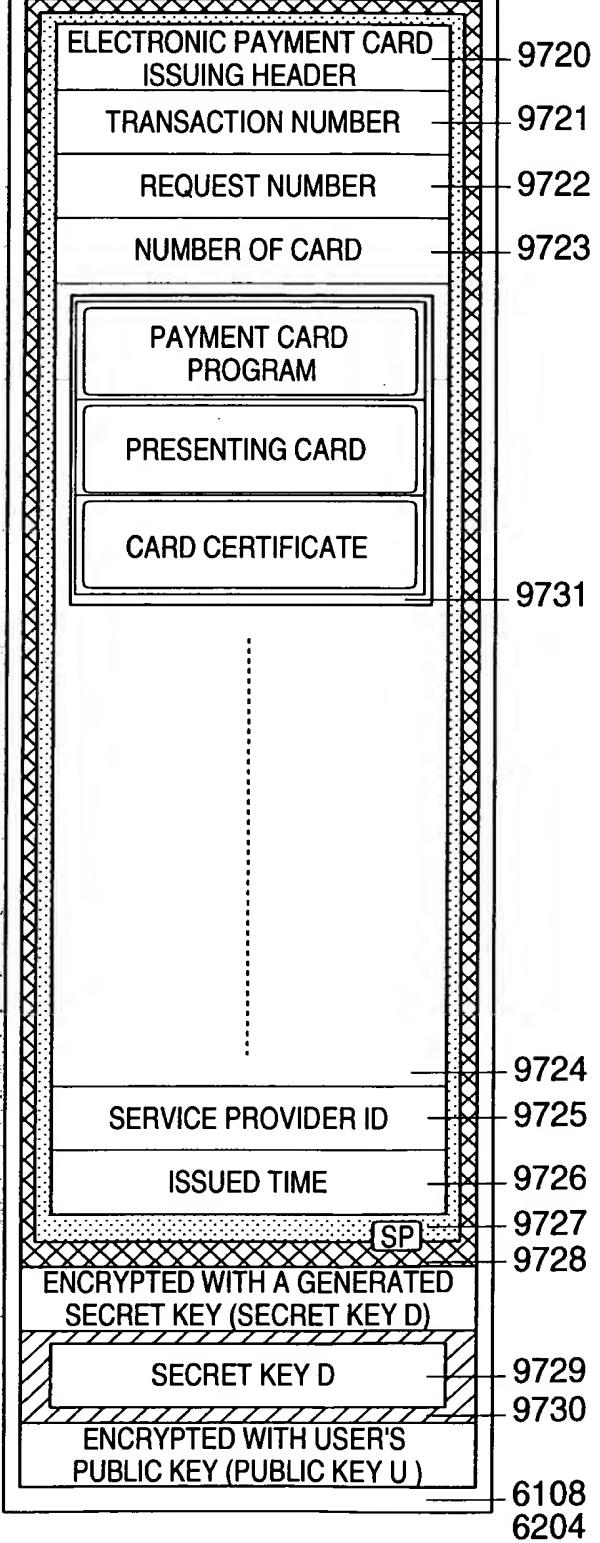
FIG.97A

FIG.97B

ELECTRONIC PAYMENT CARD ISSUING COMMISSION



ELECTRONIC PAYMENT CARD ISSUING



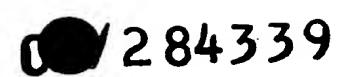
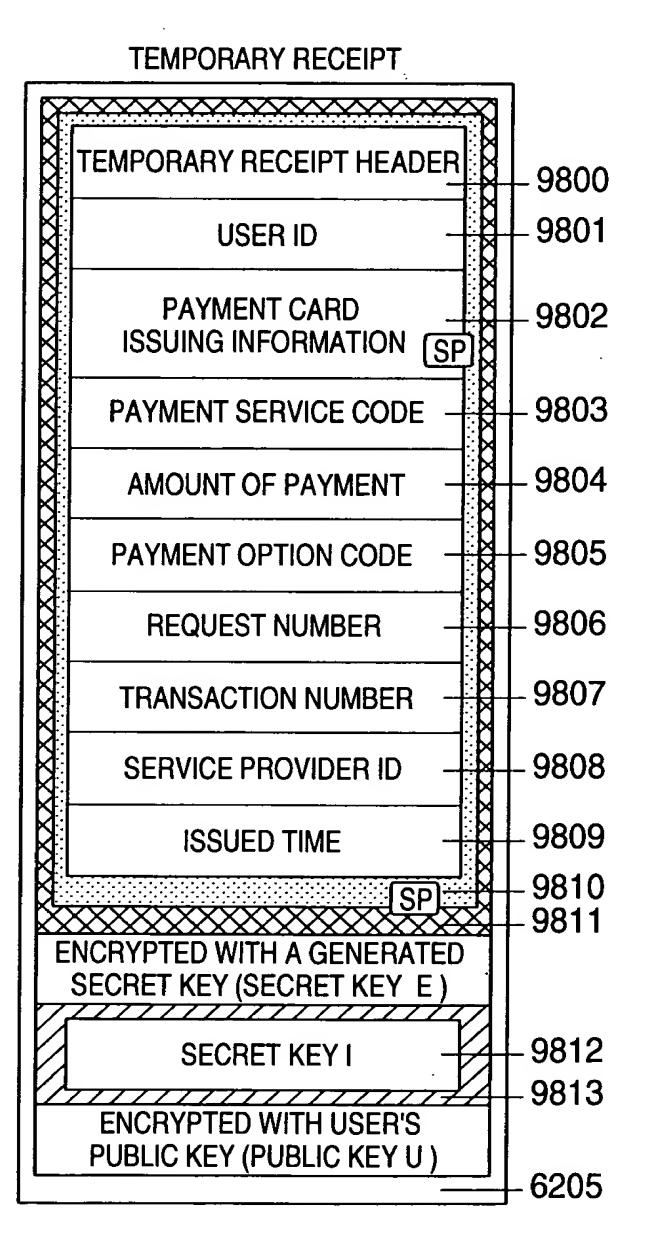


FIG.98A

FIG.98B



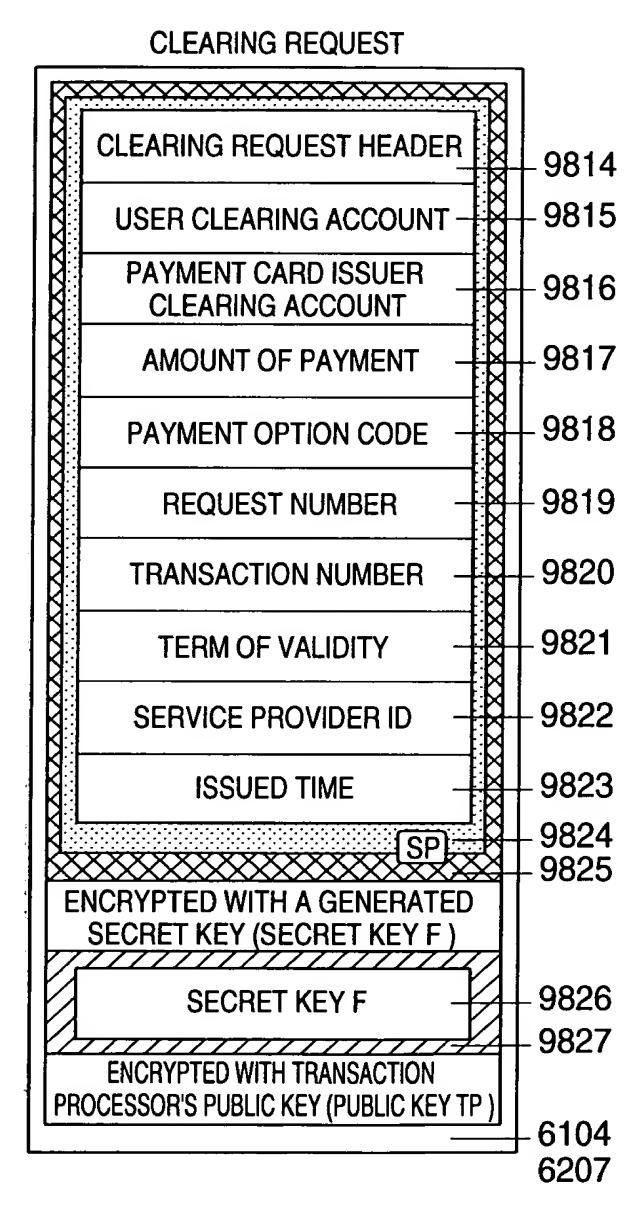


FIG.99A

FIG.99B

CLEARING COMPLETION TP2SP CLEARING COMPLETION TP2SP 9900 **HEADER** 9901 **CLEARING NUMBER** 9902 **USER CLEARING ACCOUNT** PAYMENT CARD ISSUER 9903 **CLEARING ACCOUNT** 9904 **AMOUNT OF PAYMENT** - 9905 PAYMENT OPTION CODE 9906 REQUEST NUMBER 9907 TRANSACTION NUMBER CLEARING INFORMATION 2SP - 9908 9909 CLEARING INFORMATION 2PCI 9910 **CLEARING INFORMATION 2U** 9911 **CLEARING PROCESSOR ID** 9912 **ISSUED TIME** 9913 9914 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY G) 9915 SECRET KEY G 9916 **ENCRYPTED WITH SERVICE PROVIDER'S** PUBLIC KEY (PUBLIC KEY SP) 6105

6208

CLEARING COMPLETION SP2PCI **CLEARING COMPLETION** 9917 SP2PCI HEADER 9918 **CLEARING NUMBER** 9919 **CUSTOMER NUMBER** 9920 PAYMENT CARD ISSUER ID 9921 PAYMENT SERVICE CODE +9922**AMOUNT OF PAYMENT** - 9923 PAYMENT OPTION CODE 9924 **REQUEST NUMBER** 9925 TRANSACTION NUMBER 9926 **CLEARING INFORMATION 2PCI** 9927 TRANSACTION PROCESSOR ID - 9928 **SERVICE PROVIDER ID** 9929 **ISSUED TIME** 9930 SP 🚃 9931 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY H) 9932 SECRET KEY H 9933 **ENCRYPTED WITH PAYMENT CARD** ISSUER'S PUBLIC KEY (PUBLIC KEY PCI) 6106 6209

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FIG.100A

FIG.100B

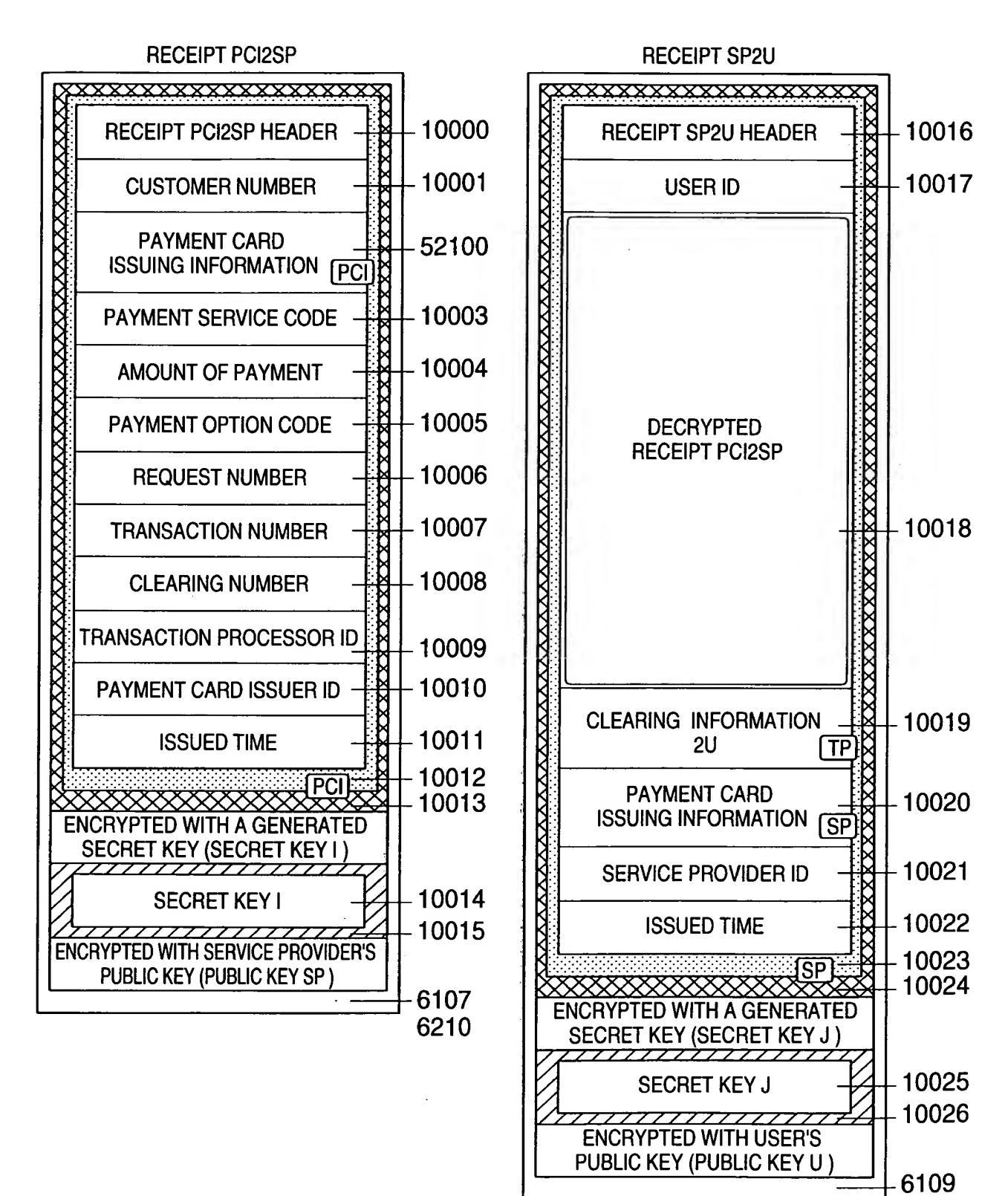
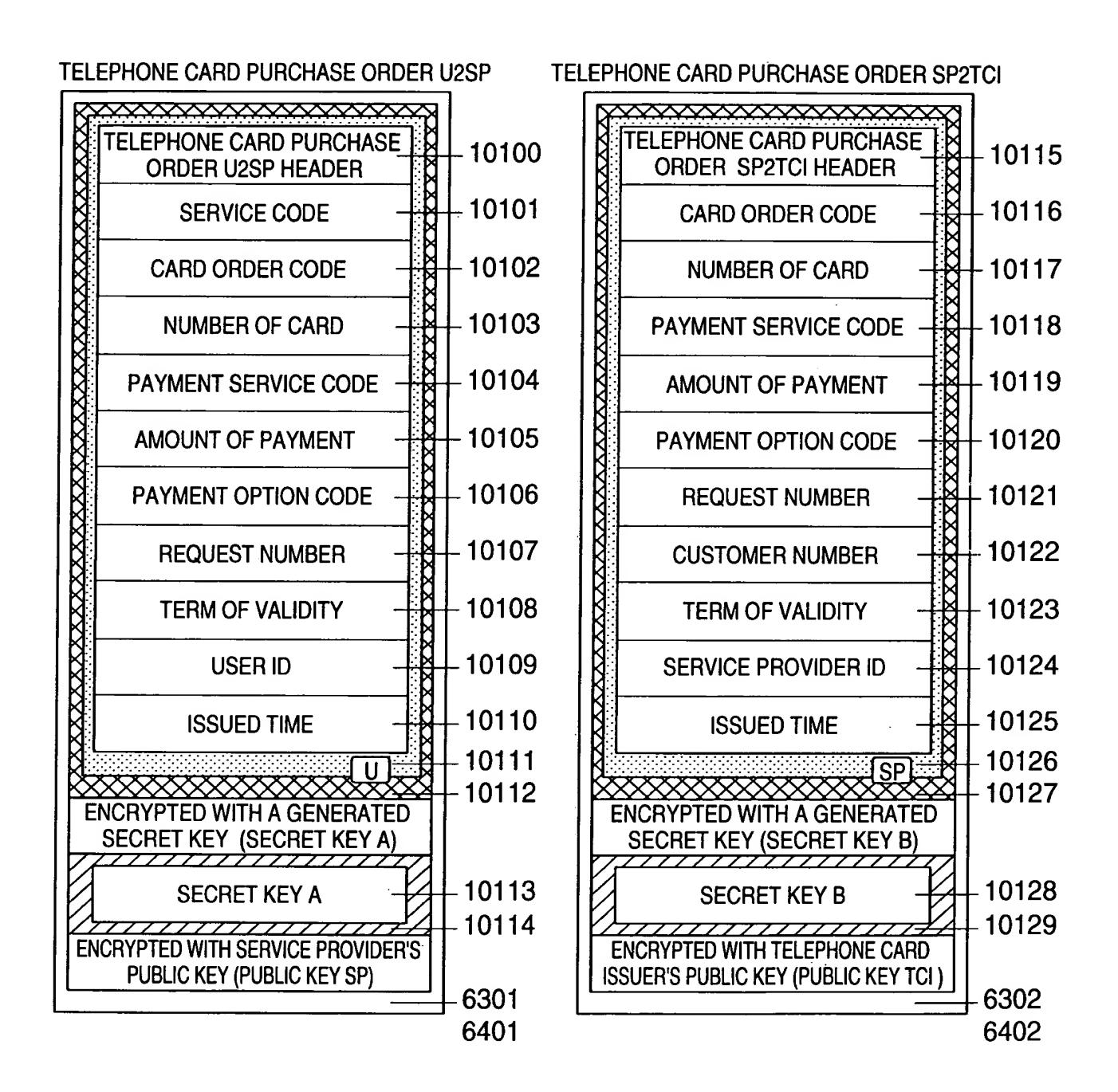




FIG.101A

FIG.101B

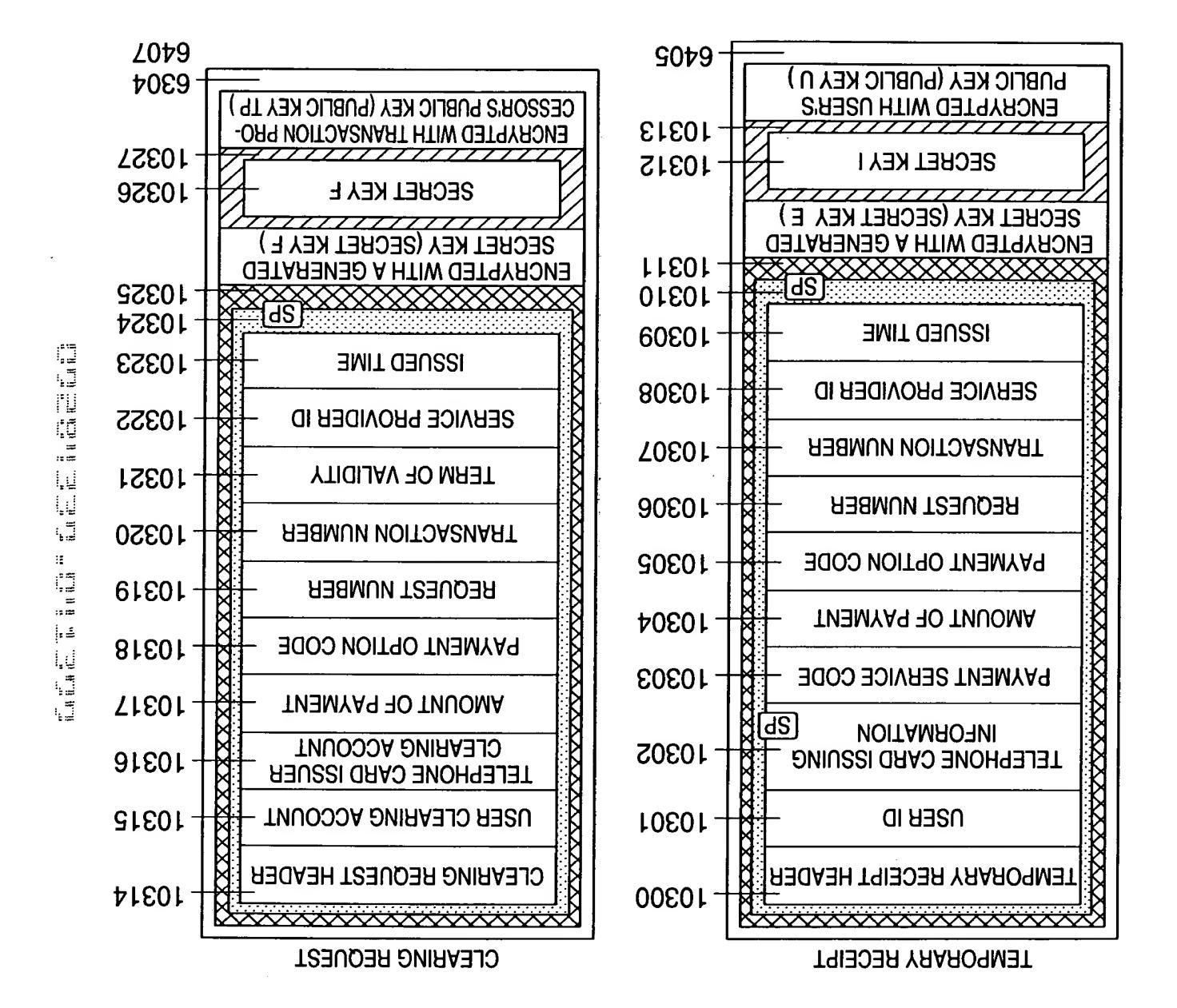


どうこう COA 7079 8089 6303 PUBLIC KEY (PUBLIC KEY U PUBLIC KEY (PUBLIC KEY SP) ENCRYPTED WITH USER'S ENCRYPTED WITH SERVICE PROVIDER'S 10230 10215 10229 SECHET KEY D 10214 SECHET KEY C ENCRYPTED WITH A GENERATED ENCRYPTED WITH A GENERATED 10228 10213 10227 10212 10226 ISSUED TIME 10211 ISSUED TIME 10210 10225 SERVICE PROVIDER ID TELEPHONE CARD ISSUER ID 10224 (JANOIT90) 10209 TNEPRESENTATION COMPONENT 10208 TCI 10219 ISSNEB ID 10218 TELEPHONE CARD CARD INFORMATION 10217 10231 10216 CARD ID CARD CERTIFICATE ĿĖ NUMBER OF CARD 70201 | H PRESENTING CARD 10206 **TEMPLATE CODE** 10205 CARD CODE **PROGRAM** TELEPHONE CARD REQUEST NUMBER 10201 10223 **NUMBER OF CARD CLEARING OPTION** 10203 10222 REQUEST NUMBER **AMOUNT OF SALE** 10202 10221 TRANSACTION NUMBER TRANSACTION NUMBER 10201 **ISSUING HEADER** ISSUING COMMISSION HEADER 10220 10200 ELECTRONIC TELEPHONE CARD ELECTRONIC TELEPHONE CARD XXXXXXXXXXXXXXXXX ELECTRONIC TELEPHONE CARD ISSUING ISSUING COMMISSION ELECTRONIC TELEPHONE CARD FIG.102A FIG. 102B 122/170

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FIG.103B

FIG.103A



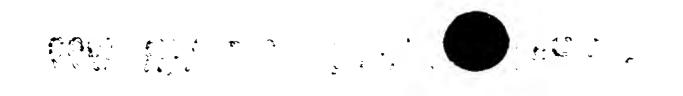
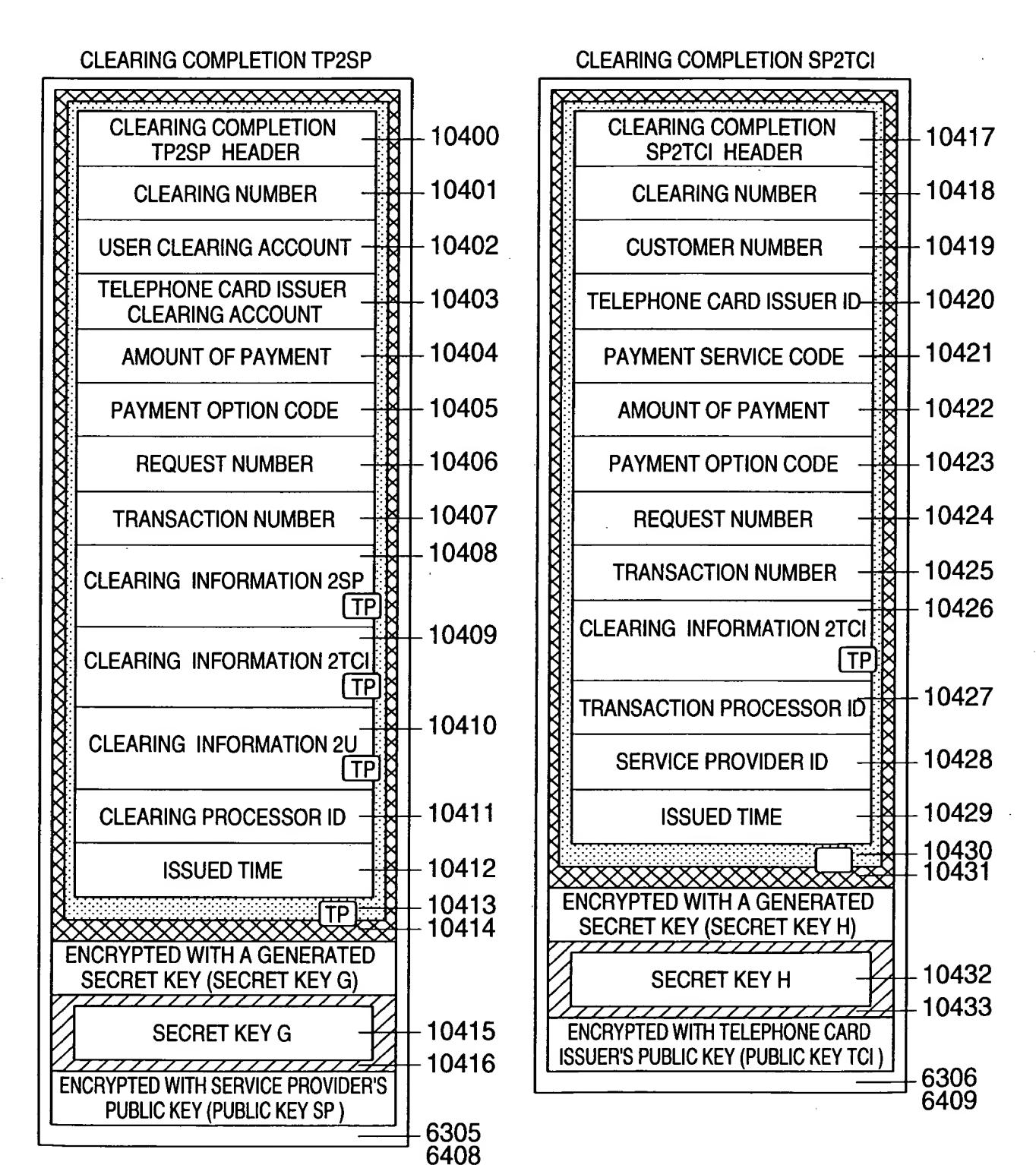


FIG. 104A

FIG.104B



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FIG.105A

FIG.105B

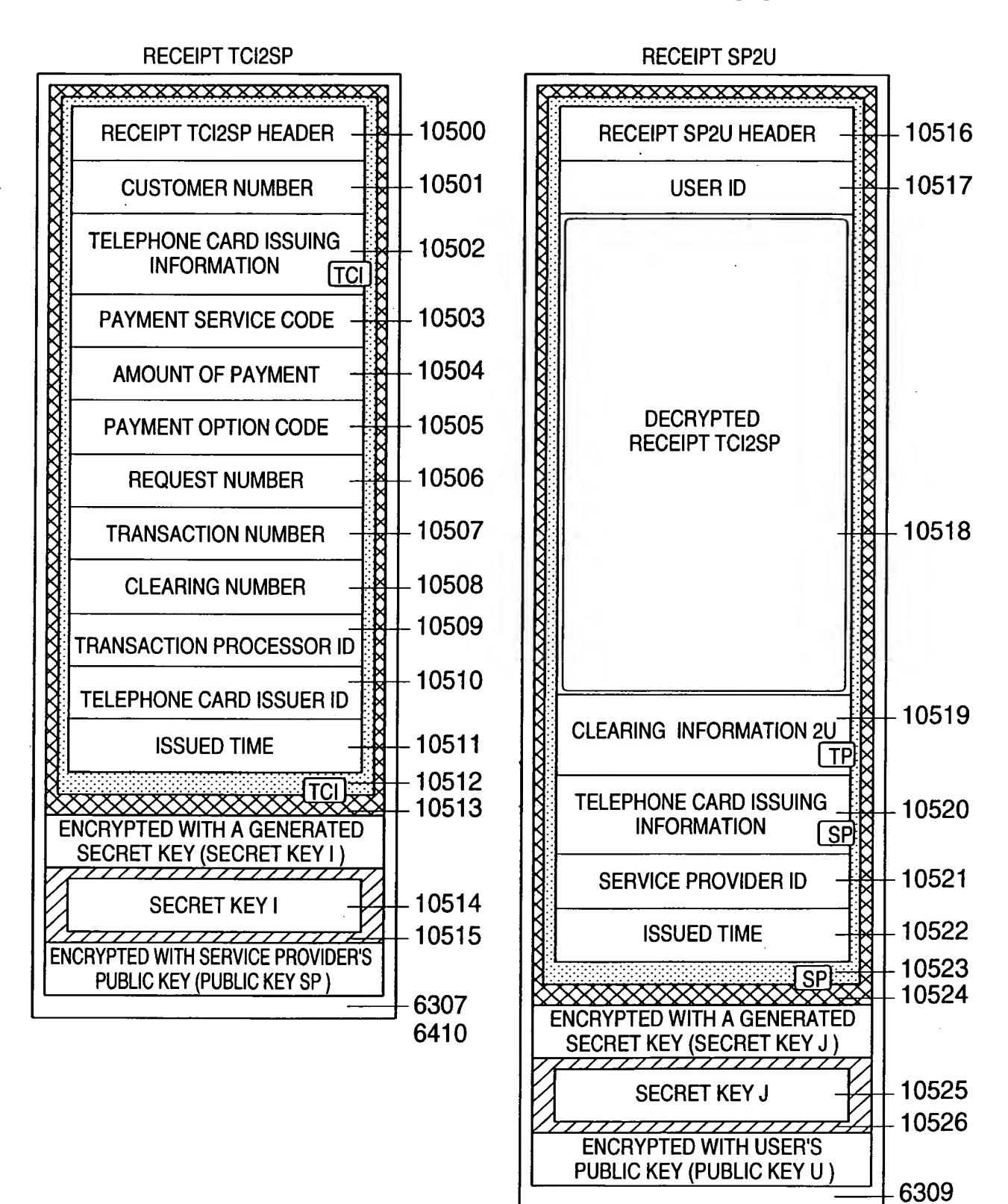


FIG. 106B

FIG. 106A

TICKET REGISTRATION REQUEST

	10608	10609	10610	10611	10612	- 10613 - 10614	10615	- 10010 - 6502
TICKET CERTIFICATE ISSUING	TICKET CERTIFICATE ISSUING K	TICKET DIGITAL SIGN PRIVATE KEY	REGISTERED TICKET CERTIFICATE	SERVICE PROVIDER ID	ISSUED TIME	ENCRYPTED WITH A GENERATED SECRET KEY B)	SECRET KEY B	ENCRYPTED WITH USER'S PUBLIC KEY U)

- 10600	-10601	- 10602	- 10603	- 10604 - 10605	- 10606	- 10607	-6501
TICKET REGISTRATION REQUEST HEADER	TICKET ID	USER ID	ISSUED TIME	ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY A)	SECRET KEY A	ENCRYPTED WITH SERVICE PROVIDER'S	י סטבוט ויבין יו סטבוט ויבין

FIG.107A

FIG.107B

	- 10708	- 10709	- 10710	-10711	- 10712	- 10713 - 10714		- 10715	- 10716	9059-
SATE ISSUING		Sign Y	A RD	ER ID		SP	ENERATED T KEY B)	B	USER'S	\
PAYMENT CARD CERTIFICATE ISSUING	PATIMENT CARD CENTIFICATE	CARD DIGITAL SIGN PRIVATE KEY	REGISTERED CARD CERTIFICATE	SERVICE PROVIDER ID	ISSUED TIME		SECRET KEY (SECRET KEY B)	SECRET KEY B	ENCRYPTED WITH USER'S PI IRI IC KEY IPI IRI IC KEY III	ייים יי ייייים יייים
PAYME	Z	****		****			SENCE			-

j —	- 10700	-10701	- 10702	- 10703	- 10704 - 10705		- 10706	- 10707	-6505
PAYMENT CARD REGISTRATION REQUEST	PAYMENT CARD REGISTRATION K REQUEST HEADER	CARD ID	USER ID	ISSUED TIME	ENCRYPTED WITH A GENERATED	SECRET KEY (SECRET KEY A)	SECRET KEY A	ENCRYPTED WITH SERVICE PROVIDER'S	PUBLIC KEY (PUBLIC KEY SP)

PUBLIC KEY (PUBLIC KEY U)

BLEEFERST AND THE RESERVE BY THE STREET BY THE STREET BY STREET BY

128/170

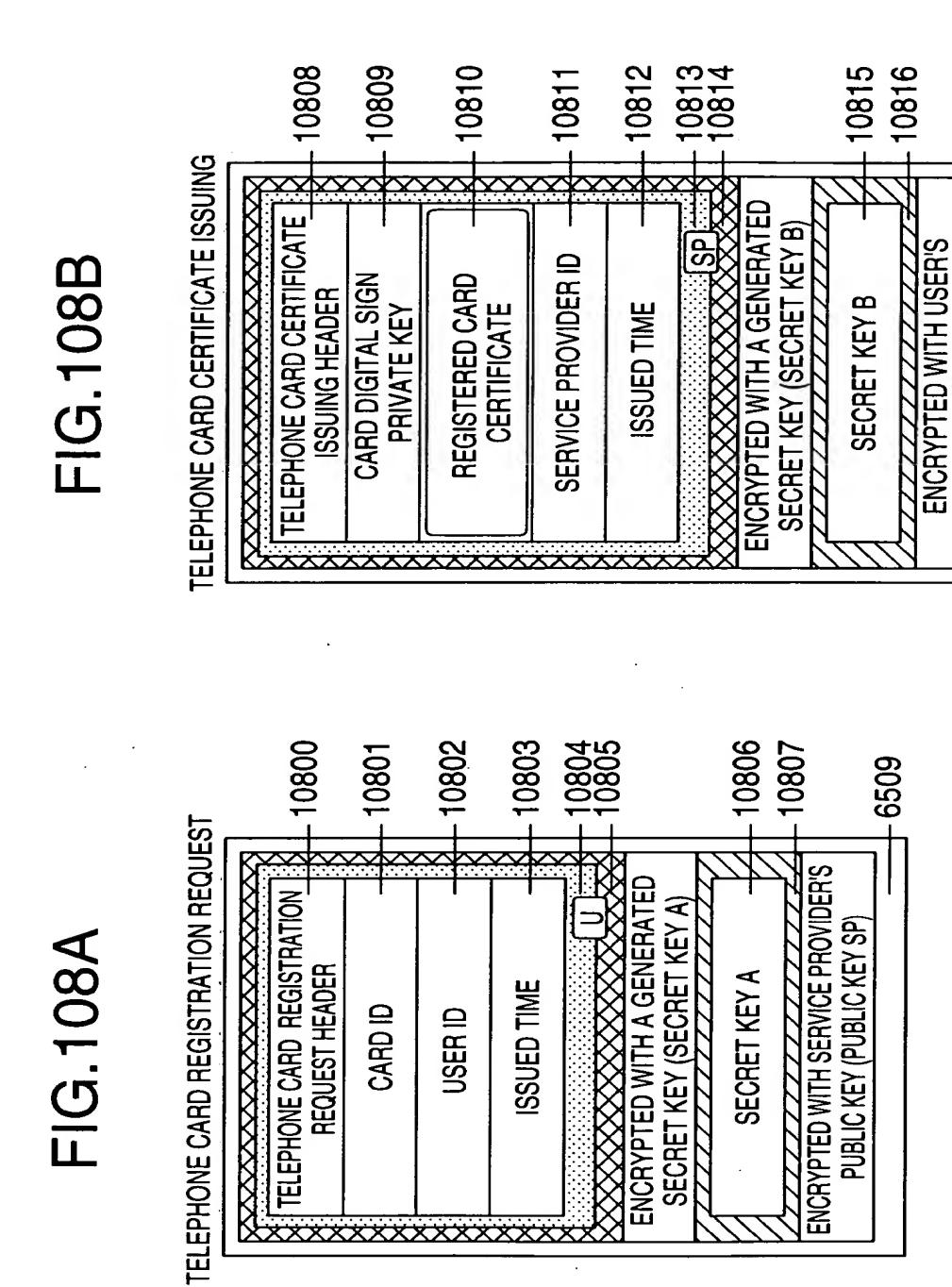
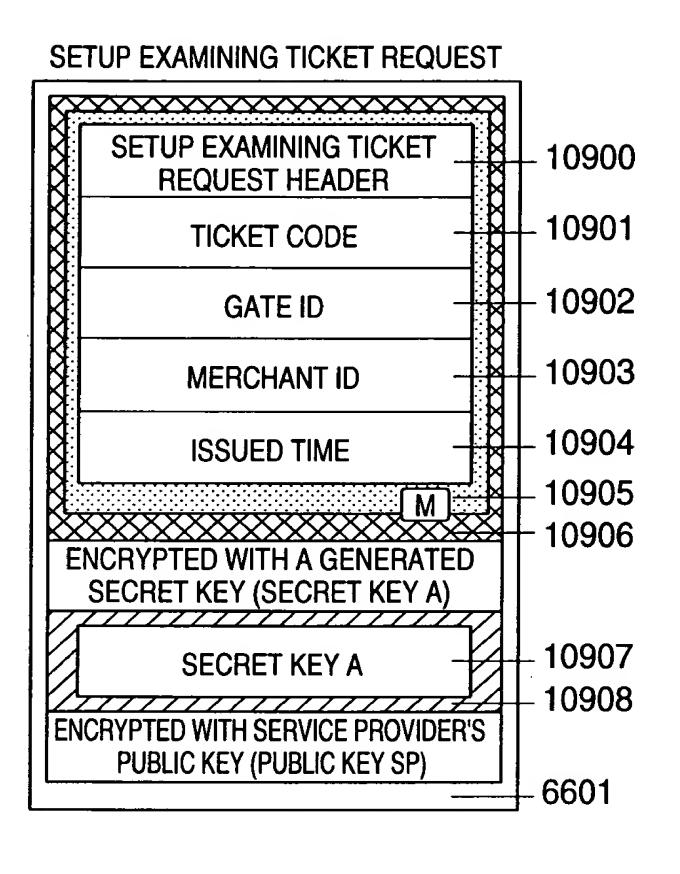




FIG.109A

FIG.109B



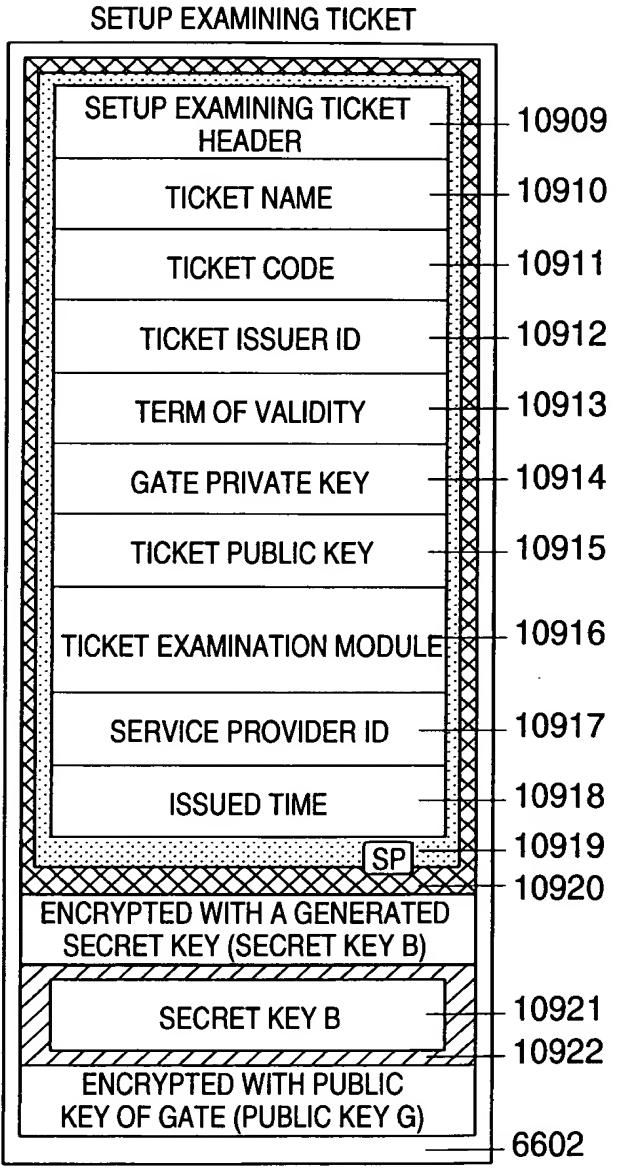




FIG.110A

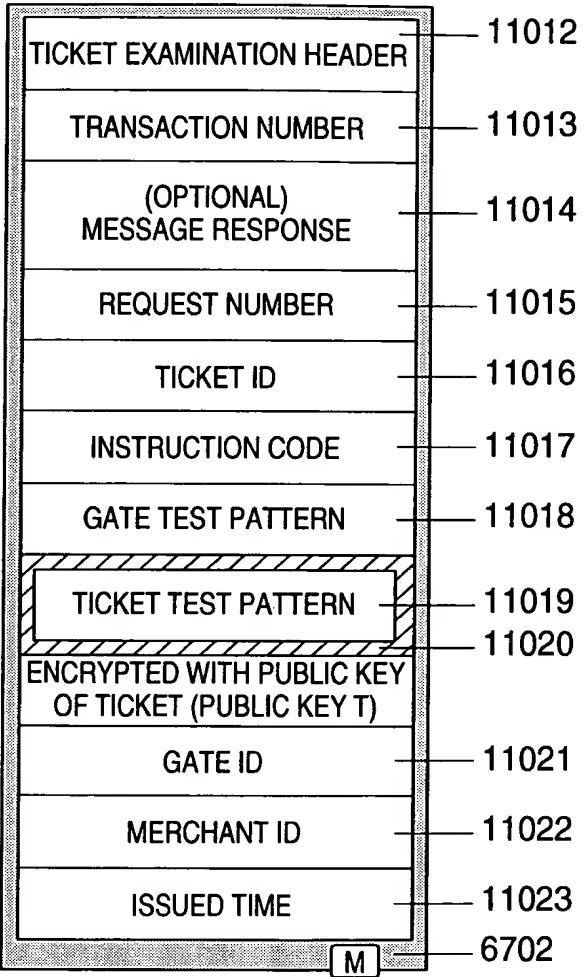
FIG.110B

TICKET PRESENTATION TICKET PRESENTATION 11000 **HEADER** 11001 **SERVICE CODE** 11002 **REQUEST NUMBER** 11003 PRESENTING TICKET 11004 TICKET CERTIFICATE 11005 TICKET STATUS **VARIABLE INFORMATION** 11006 **OF TICKET** 11007 TICKET ID 11008 **ISSUED TIME** 11009 11010 GATE TEST PATTERN 11011 **ENCRYPTED WITH PUBLIC KEY**

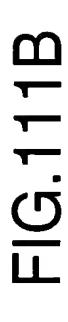
OF GATE (PUBLIC KEY G)

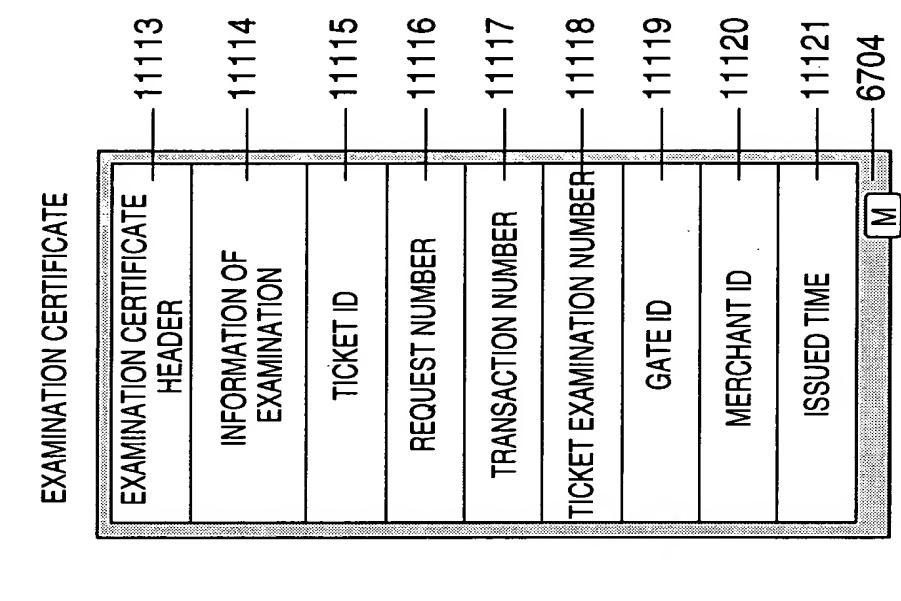
6701

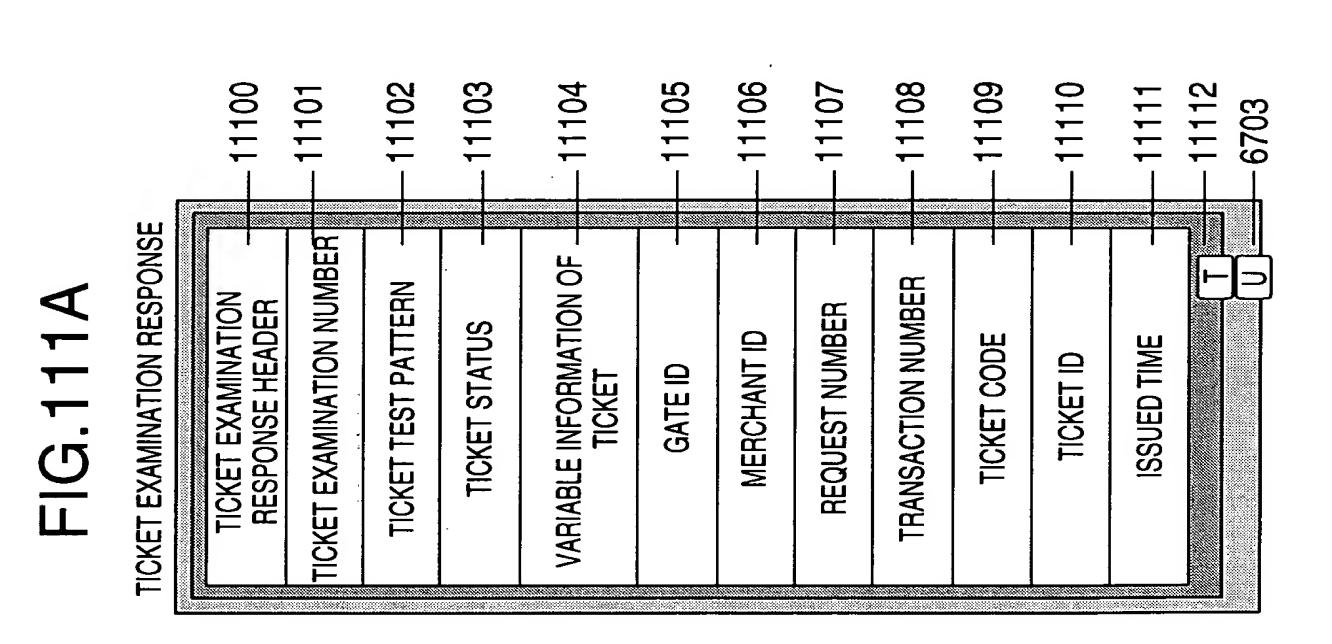
TICKET EXAMINATION



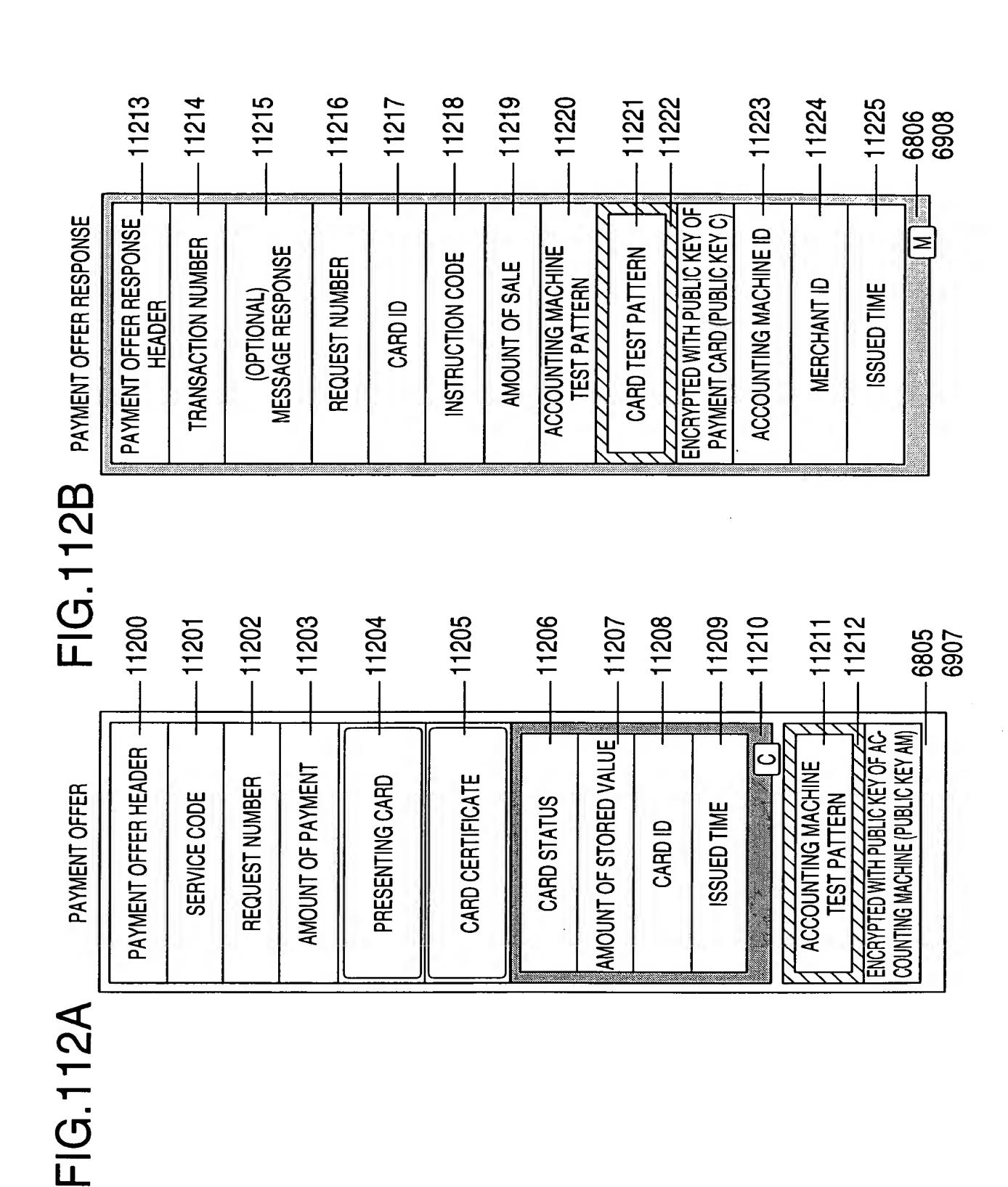
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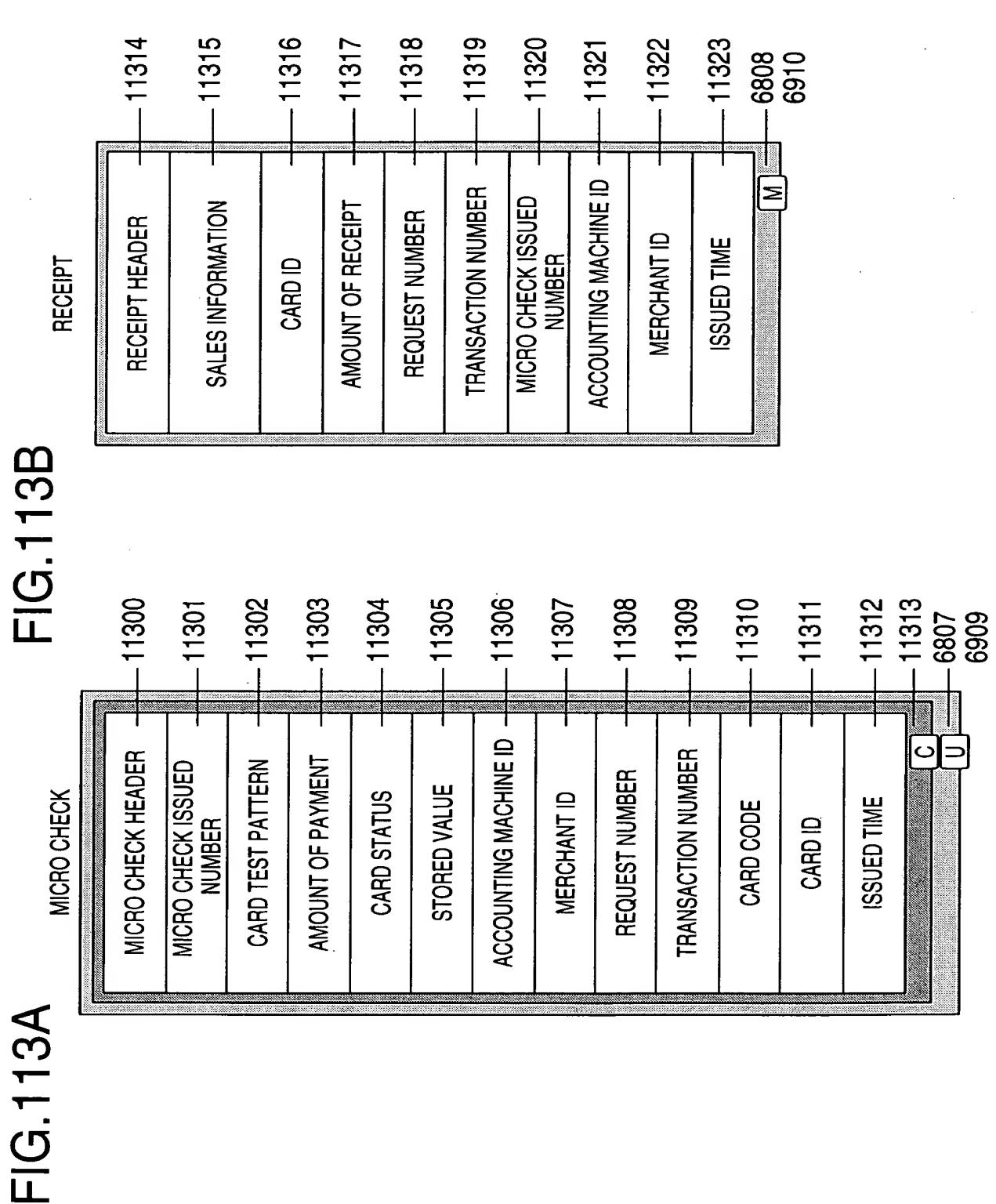




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7002

11424

11416

11417

11413

11414

FIG. 114B MICRO CHECK CALL RESPONSE FIG. 114A MICRO CHECK CALL REQUEST

ENCRYPTED WITH PUBLIC KEY OF PAYMENT CARD (PUBLIC KEY C) SP **ACCOUNTING MACHINE ID** COMMUNICATION SERVICE TRANSACTION NUMBER ACCOUNTING MACHINE TEST PATTERN (OPTIONAL) MESSAGE RESPONSE AMOUNT OF CHARGE CARD TEST PATTERN **INSTRUCTION CODE** RESPONSE HEADER REQUEST NUMBER MICRO CHECK CALL **ISSUED TIME** PROVIDER ID CARD ID -11400 -11402 -11404 -11408 -11405-11406 -11411 -11412 11403 -11401 -11409 -11410 -11407 -7001 ENCRYPTED WITH PUBLIC KEY OF AC-COUNTING MACHINE (PUBLIC KEY AM) MICRO CHECK CALL REQUEST AMOUNT OF STORED VALUE **ACCOUNTING MACHINE** REQUEST NUMBER PRESENTING CARD CARD CERTIFICATE SERVICE CODE CALL NUMBER **TEST PATTERN** CARD STATUS ISSUED TIME HEADER CARD ID

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11419

11420

11421

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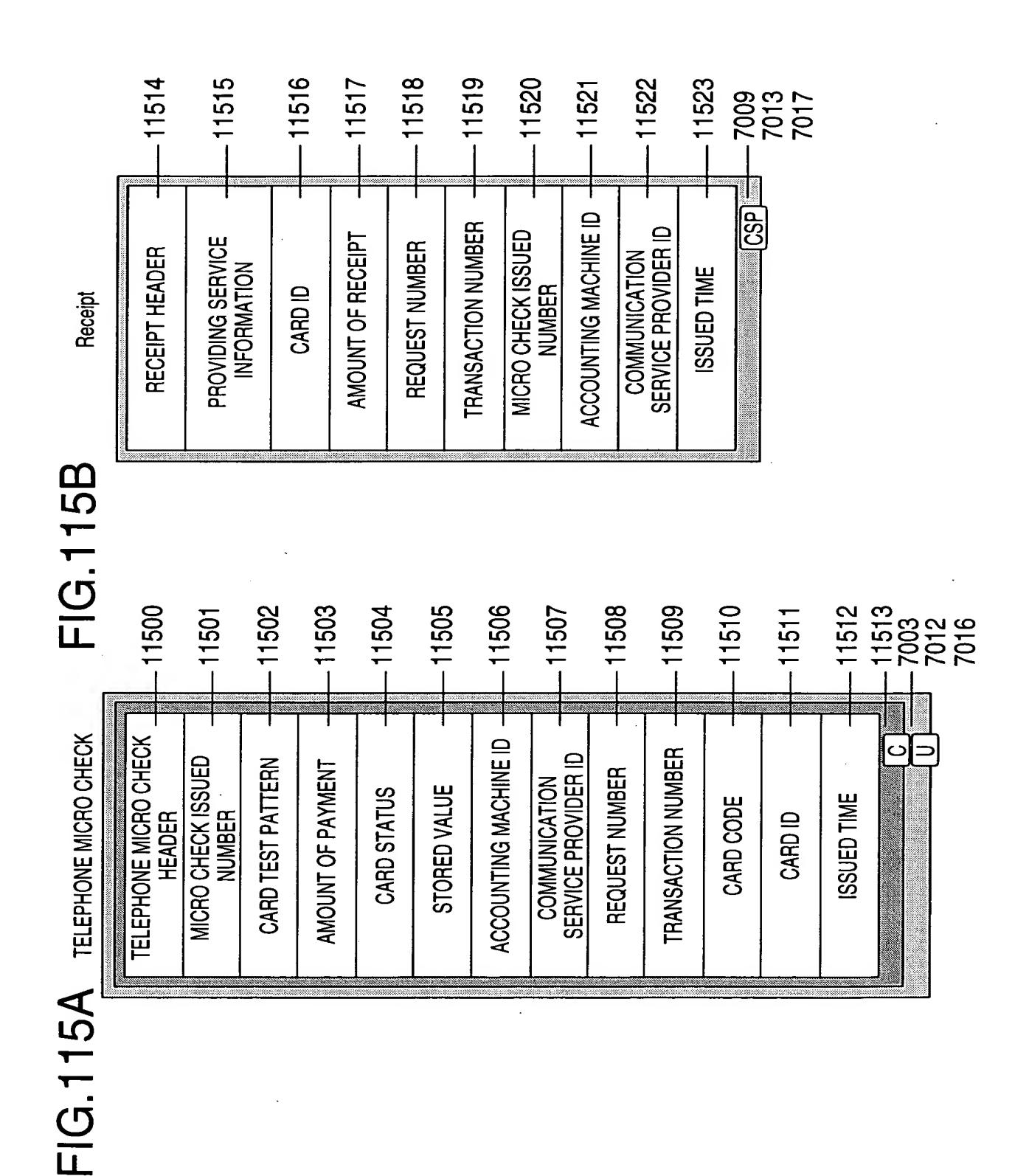


FIG.115C

COMMUNICATION CHARGE

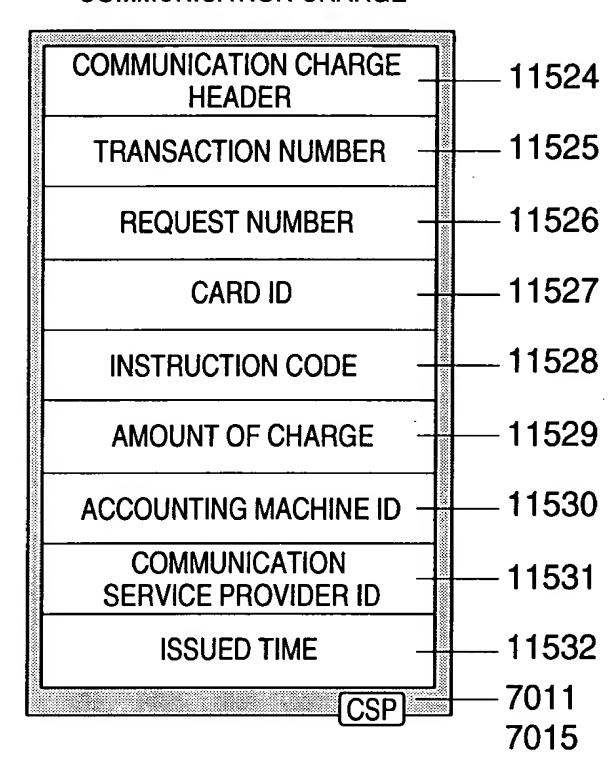


FIG.116A

FIG.116B

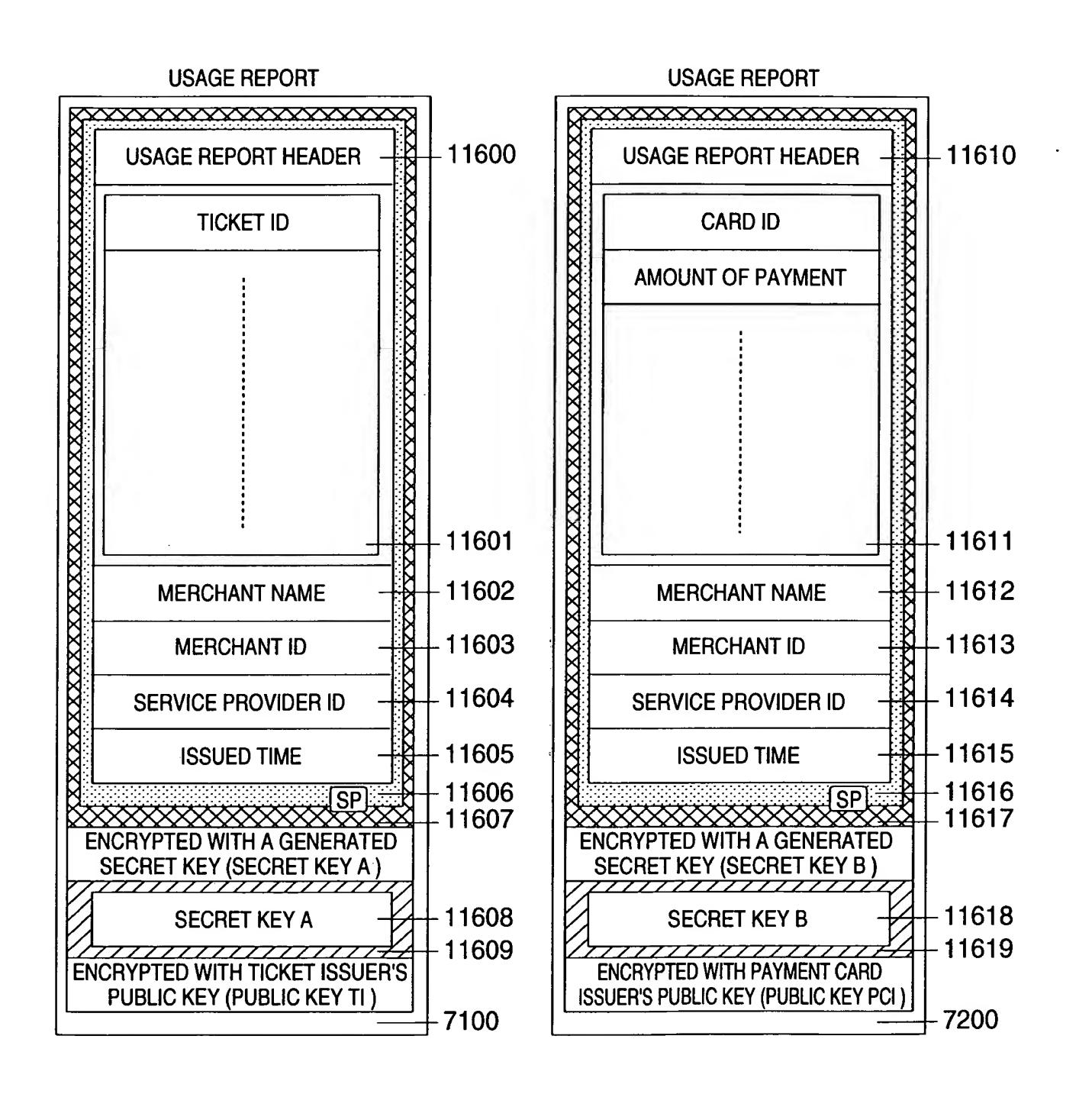
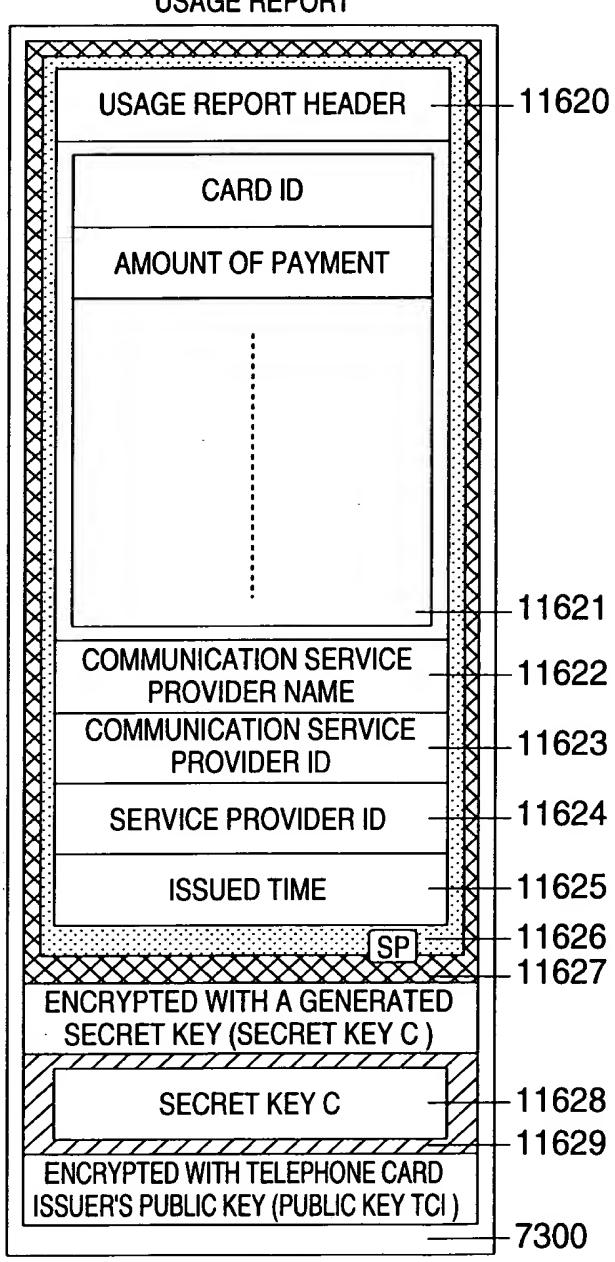




FIG.116C

USAGE REPORT



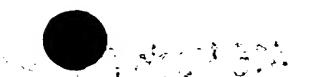
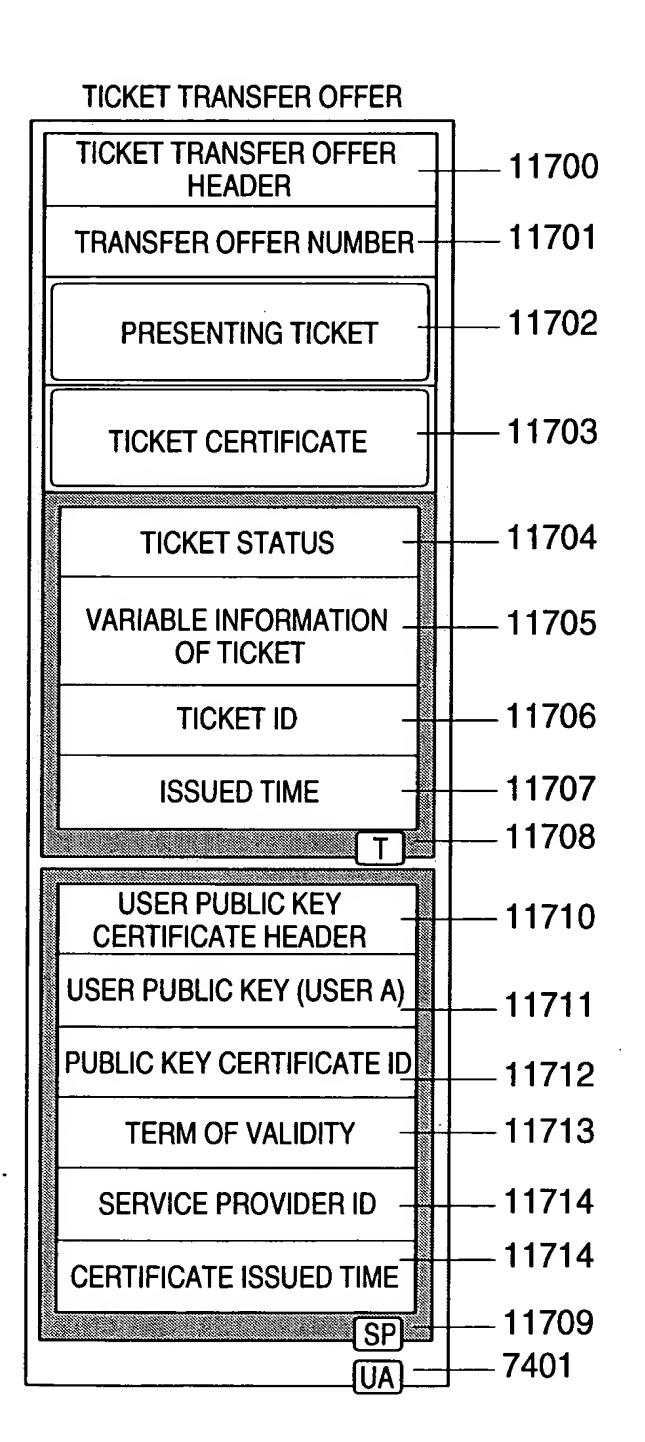


FIG.117A

FIG.117B



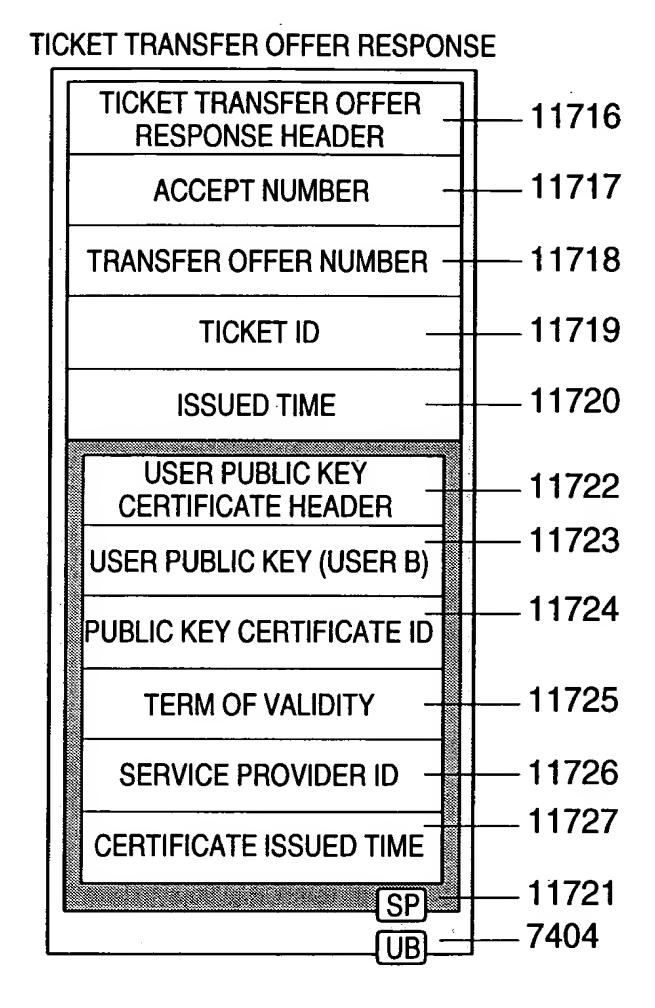




FIG.118A

FIG.118B

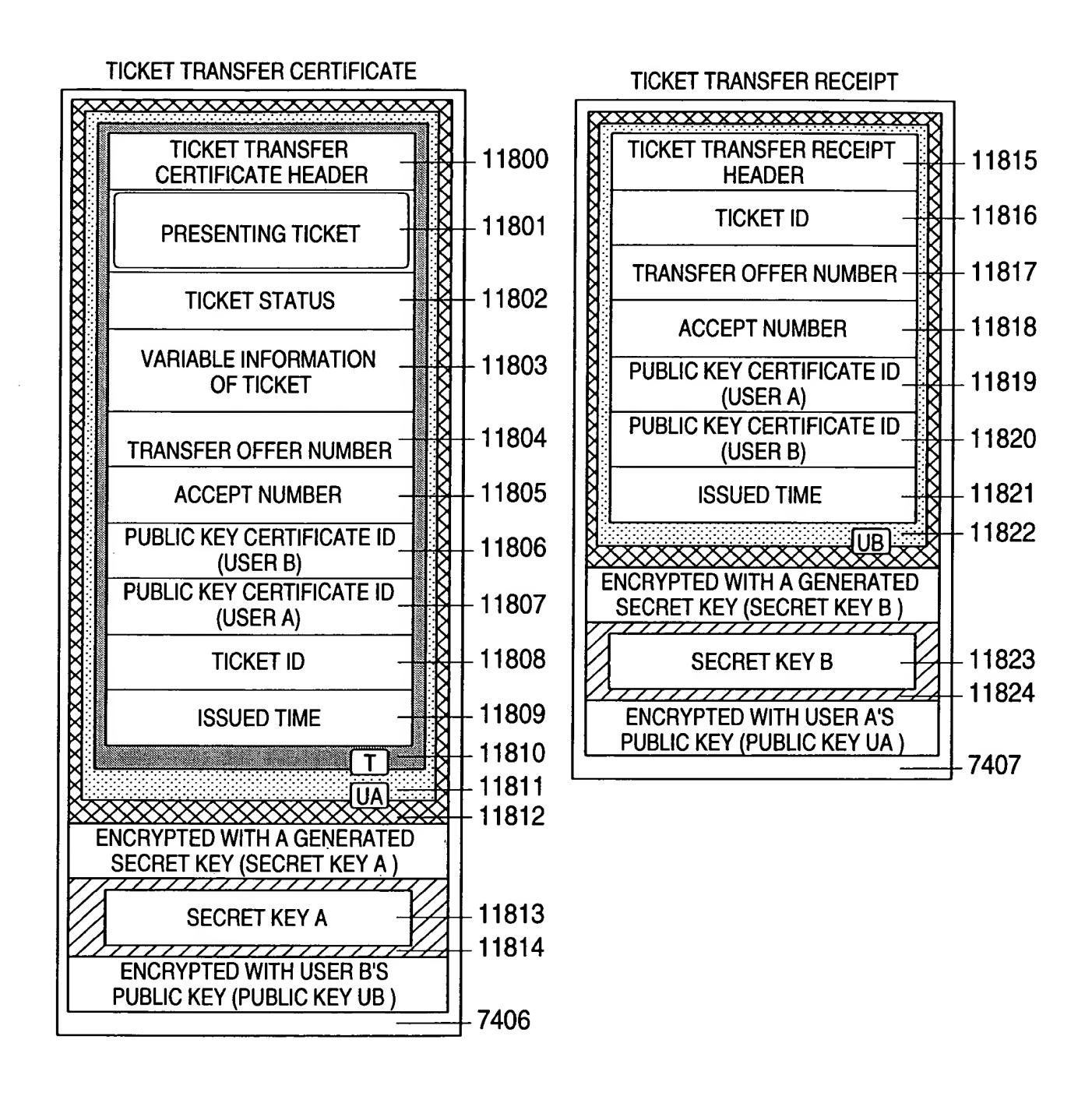
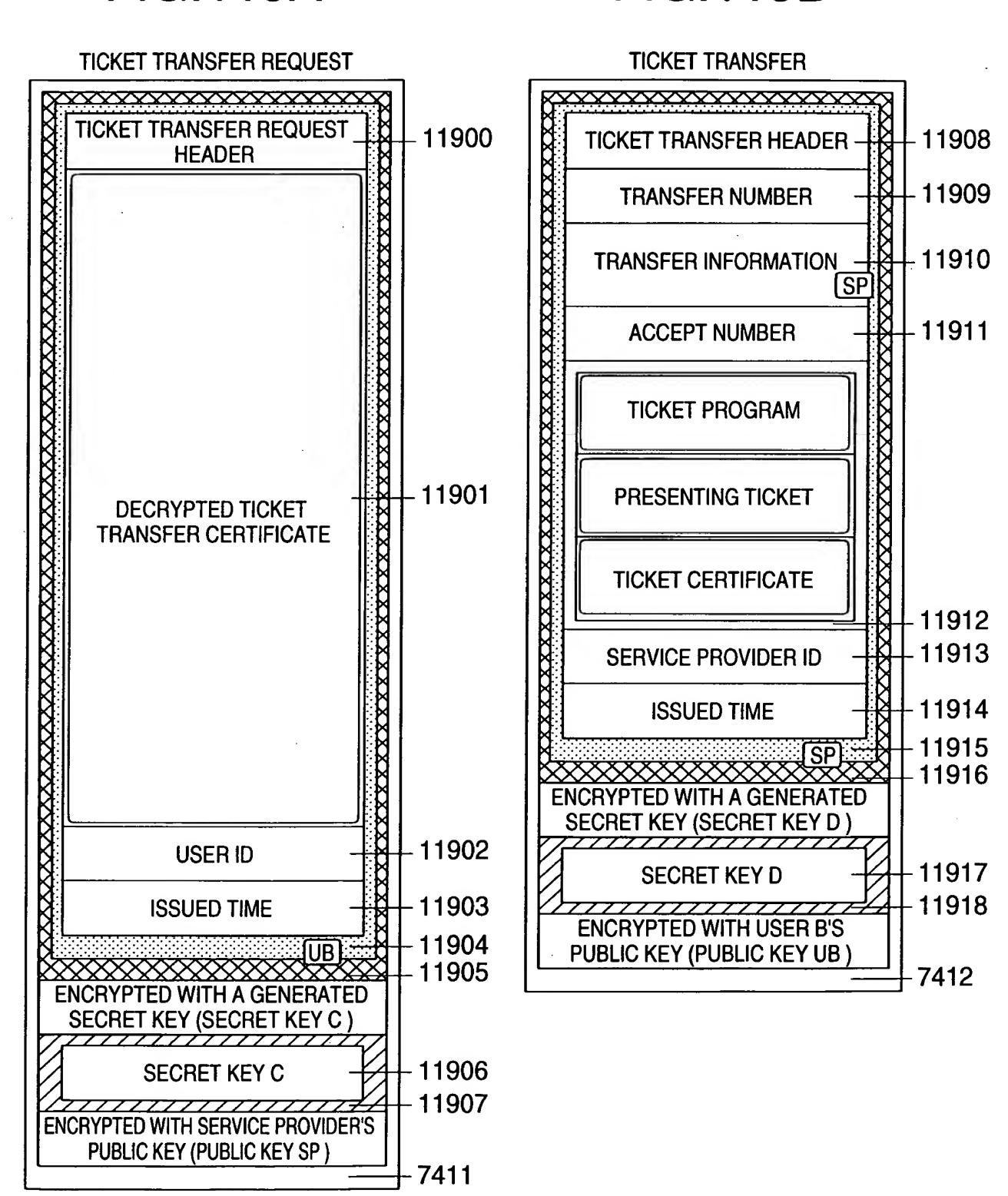






FIG.119A

FIG.119B



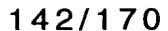


FIG.120A

FIG.120B

CARD TRANSFER OFFER CARD TRANSFER OFFER 12000 **HEADER** 12001 TRANSFER OFFER NUMBER 12002 PRESENTING CARD 12003 CARD CERTIFICATE 12004 CARD STATUS 12005 STORED VALUE 12006 **CARD ID** - 12007 **ISSUED TIME** 12008 **USER PUBLIC KEY** 12010 **CERTIFICATE HEADER** 12011 USER PUBLIC KEY (USER A) 12012 PUBLIC KEY CERTIFICATE ID 12013 **TERM OF VALIDITY** 12014 SERVICE PROVIDER ID 12014 CERTIFICATE ISSUED TIME 12009 SP 7501 UA) 7601

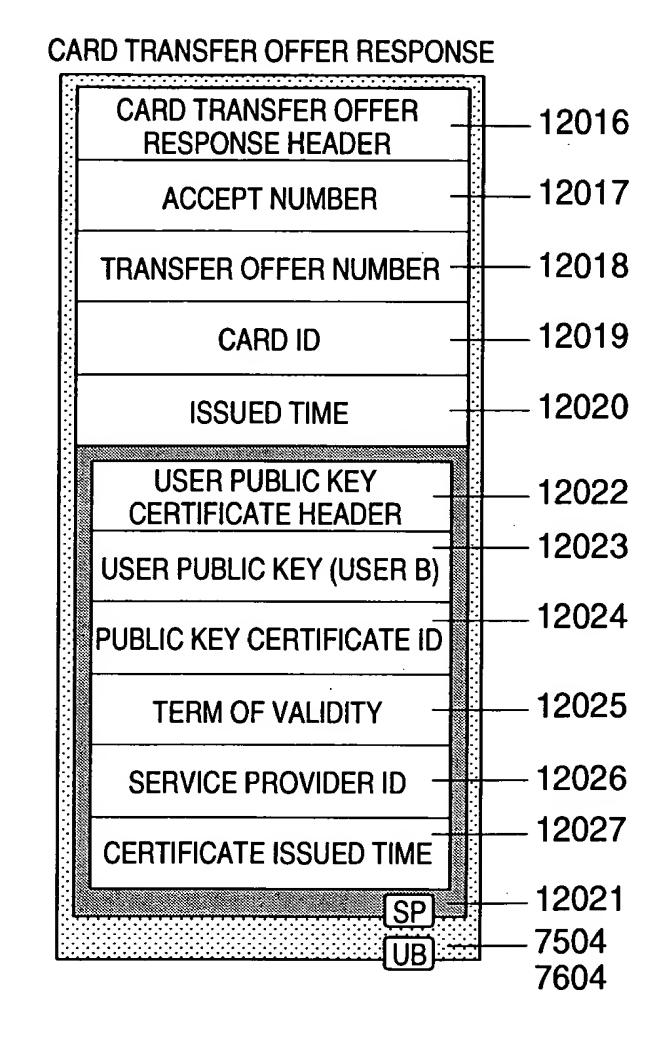


FIG.121A

FIG.121B

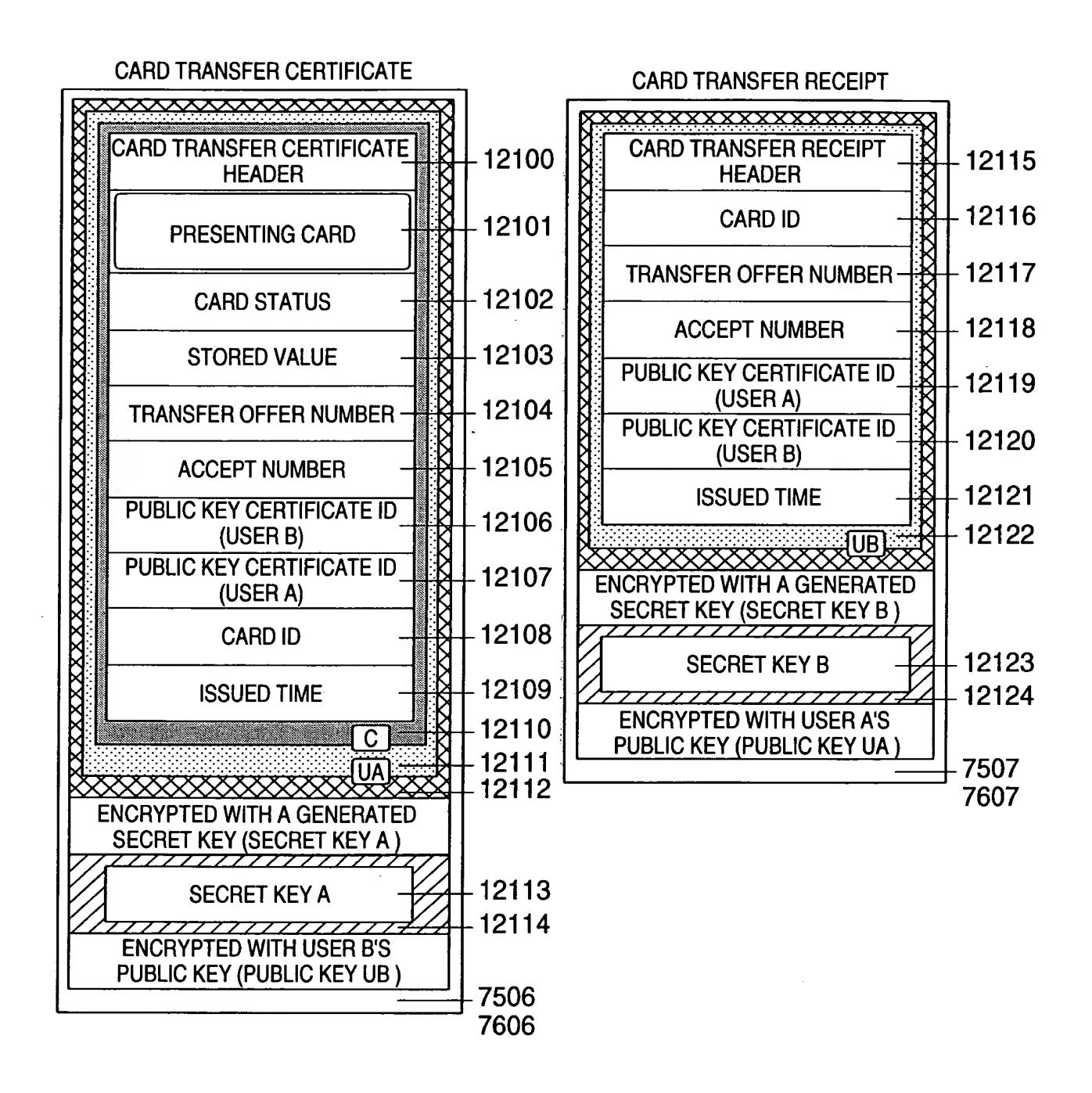


FIG.122A

CARD TRANSFER REQUEST

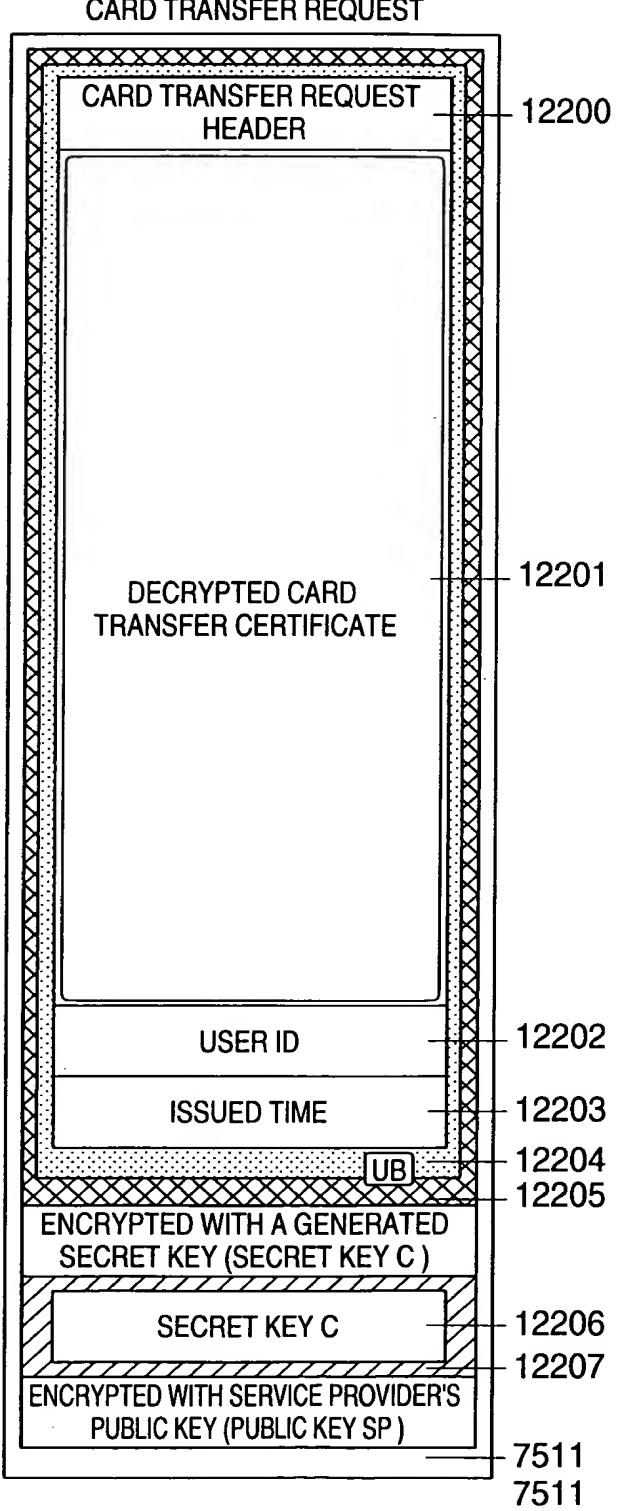


FIG.122B

FIG.122C

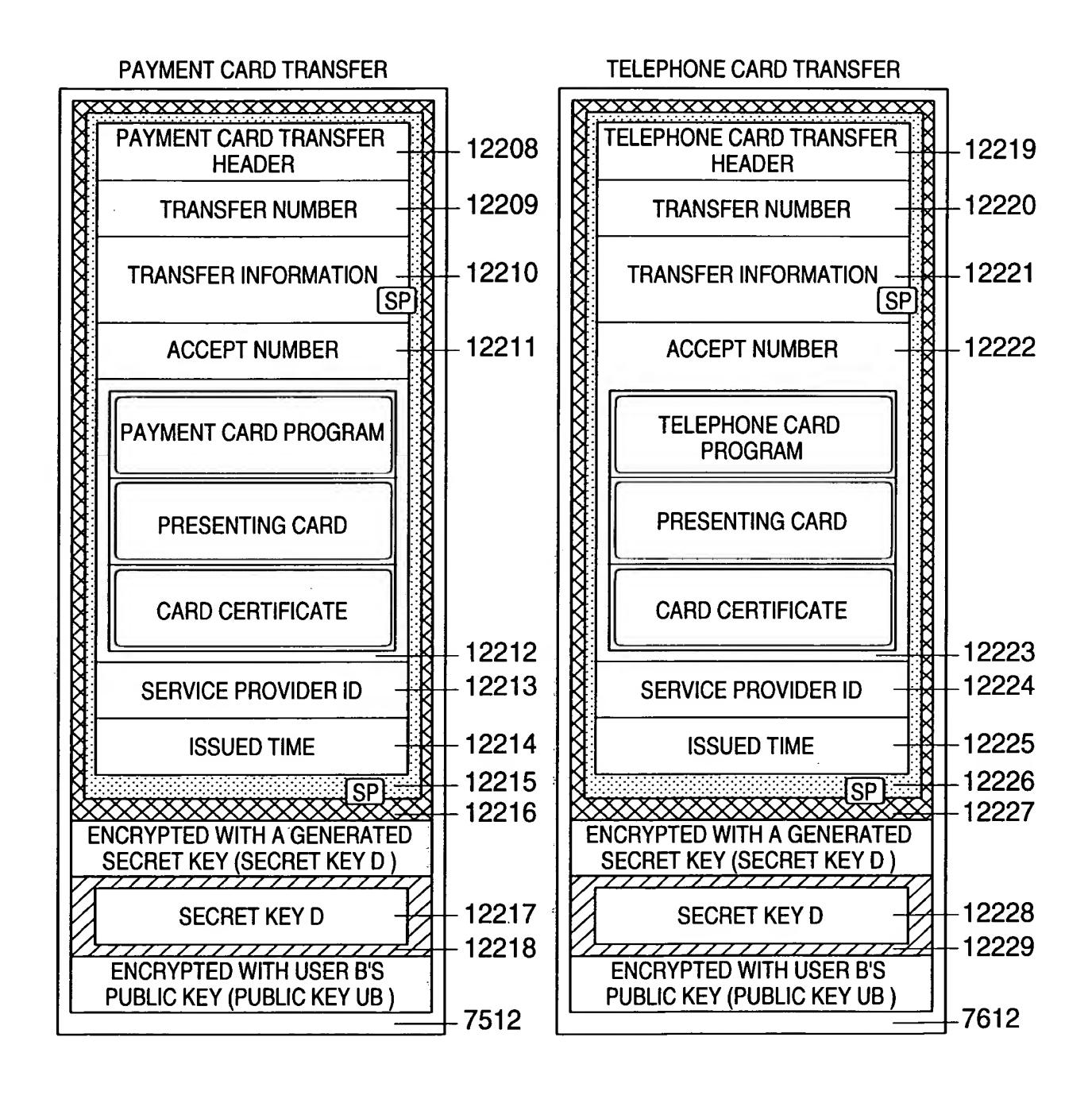
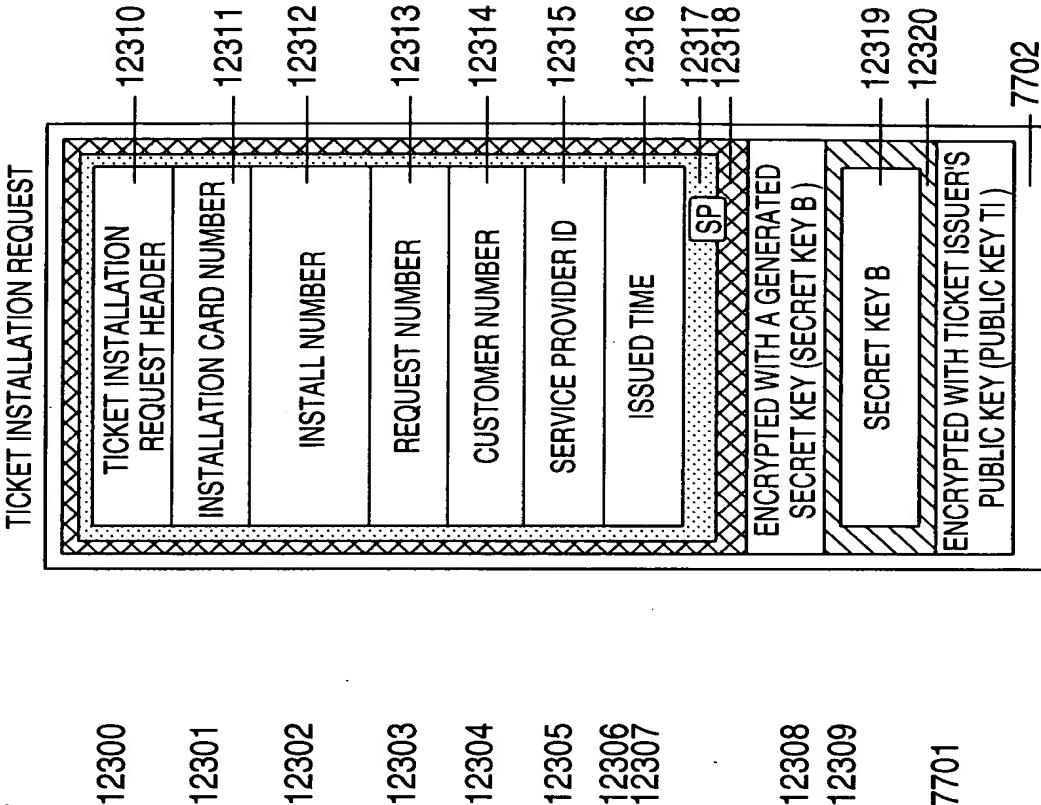


FIG. 123A

FIG. 123B



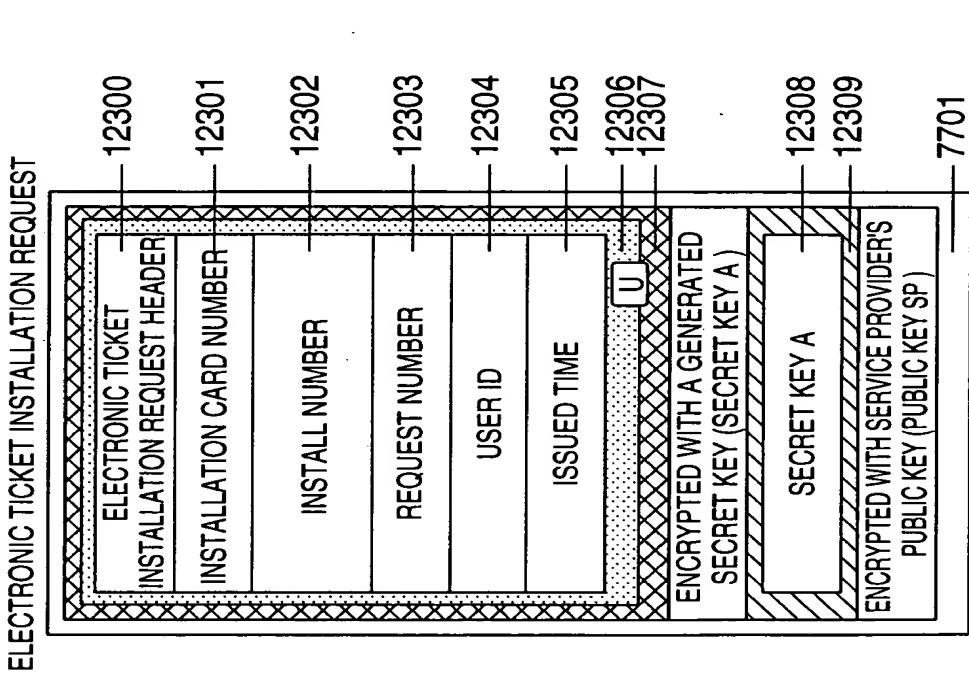


FIG.124A

FIG.124B

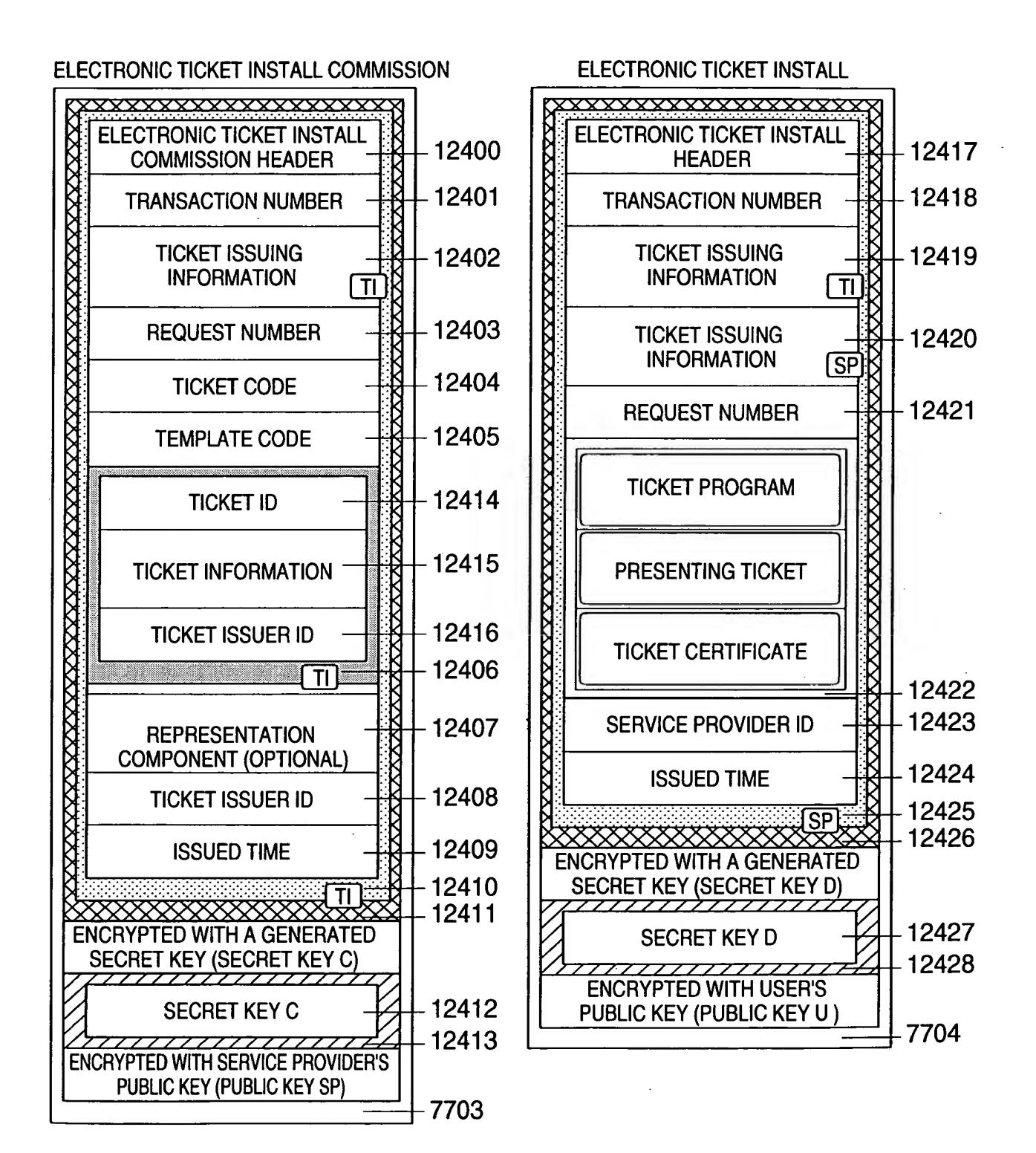
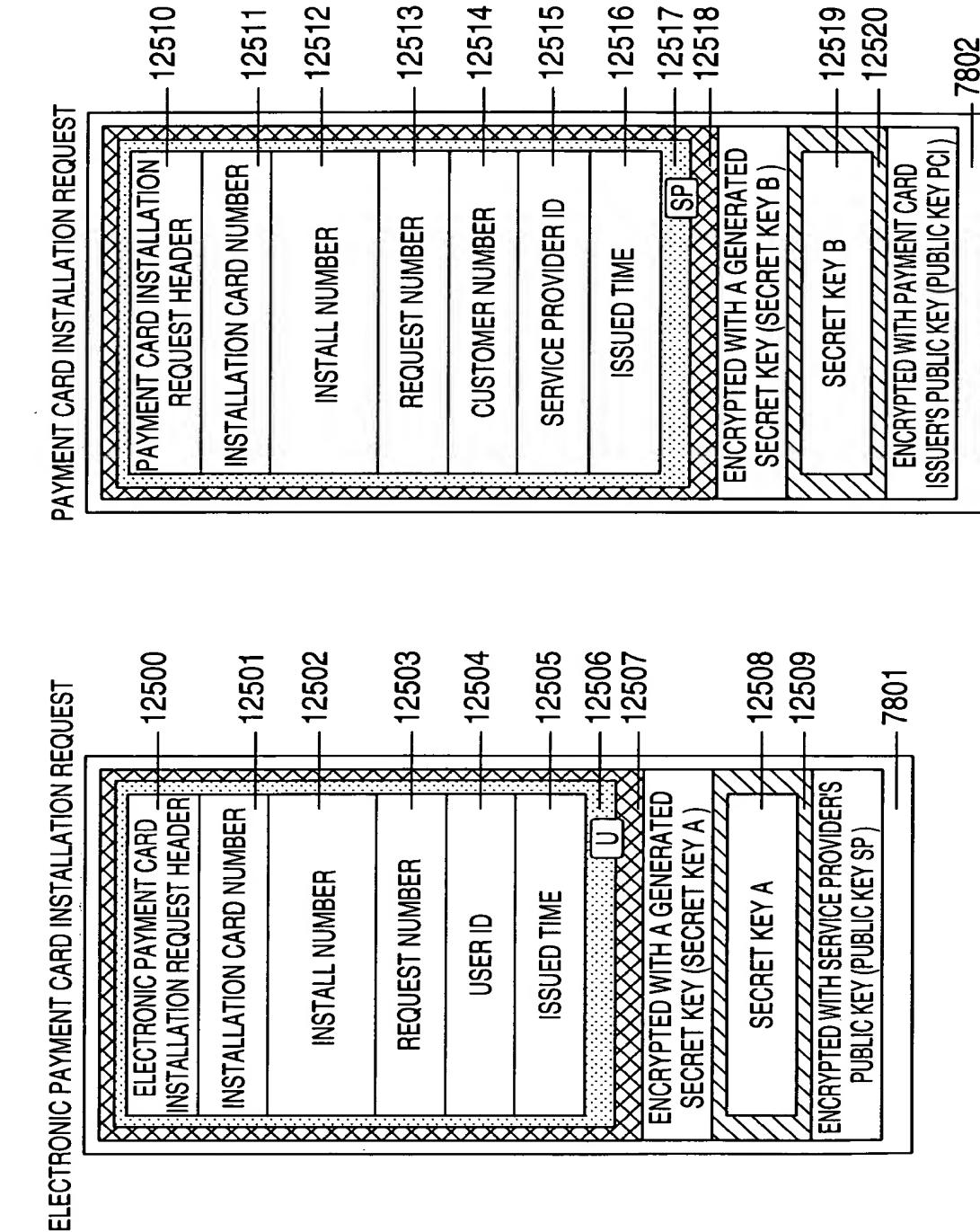


FIG. 125A

FIG. 125B



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FIG.126A

FIG.126B

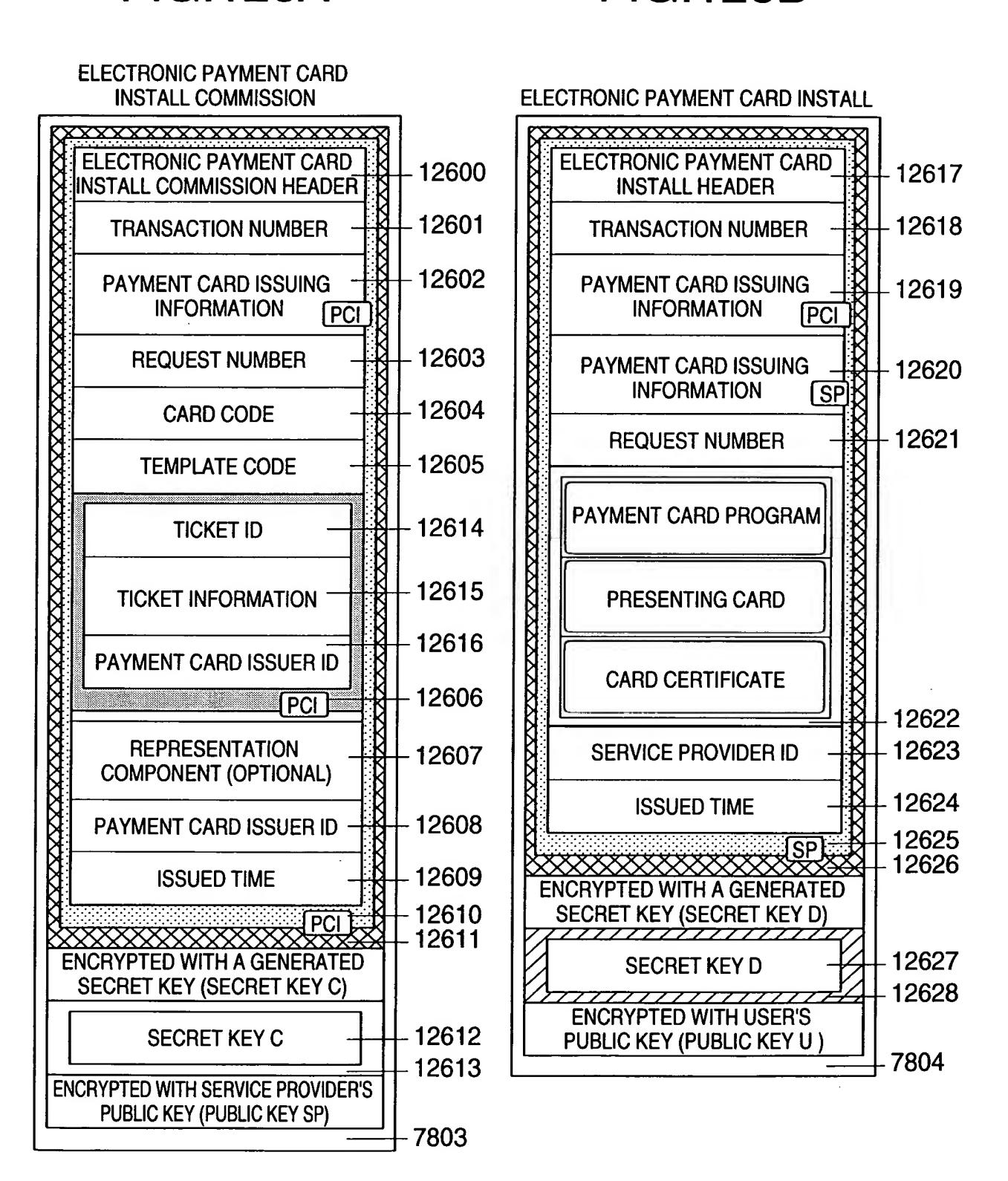
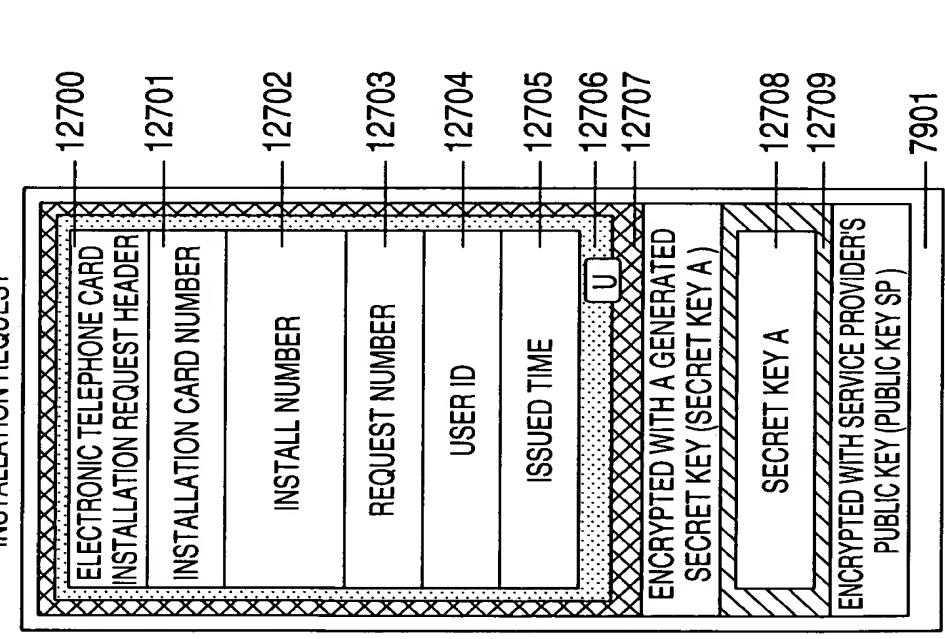


FIG. 127A

ELECTRONIC TELEPHONE CARD INSTALLATION REQUEST



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27R	
	-
<u>U</u>) -
L	_

	- 12710	- 12711	- 12712	- 12713	- 12714	- 12715	- 12716	- 12717 - 12718		- 12719	- 12/21
ELEPHONE CARD INSTALLATION REQUEST	TELEPHONE CARD INSTALLATION REQUEST HEADER	INSTALLATION CARD NUMBER	INSTALL NUMBER	REQUEST NUMBER	CUSTOMER NUMBER	SERVICE PROVIDER ID	ISSUED TIME		SECRET KEY (SECRET KEY B)	SECRET KEY B	ENCRYPTED WITH TELEPHONE CARD ISSUER'S PUBLIC KEY (PUBLIC KEY TCI)

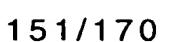
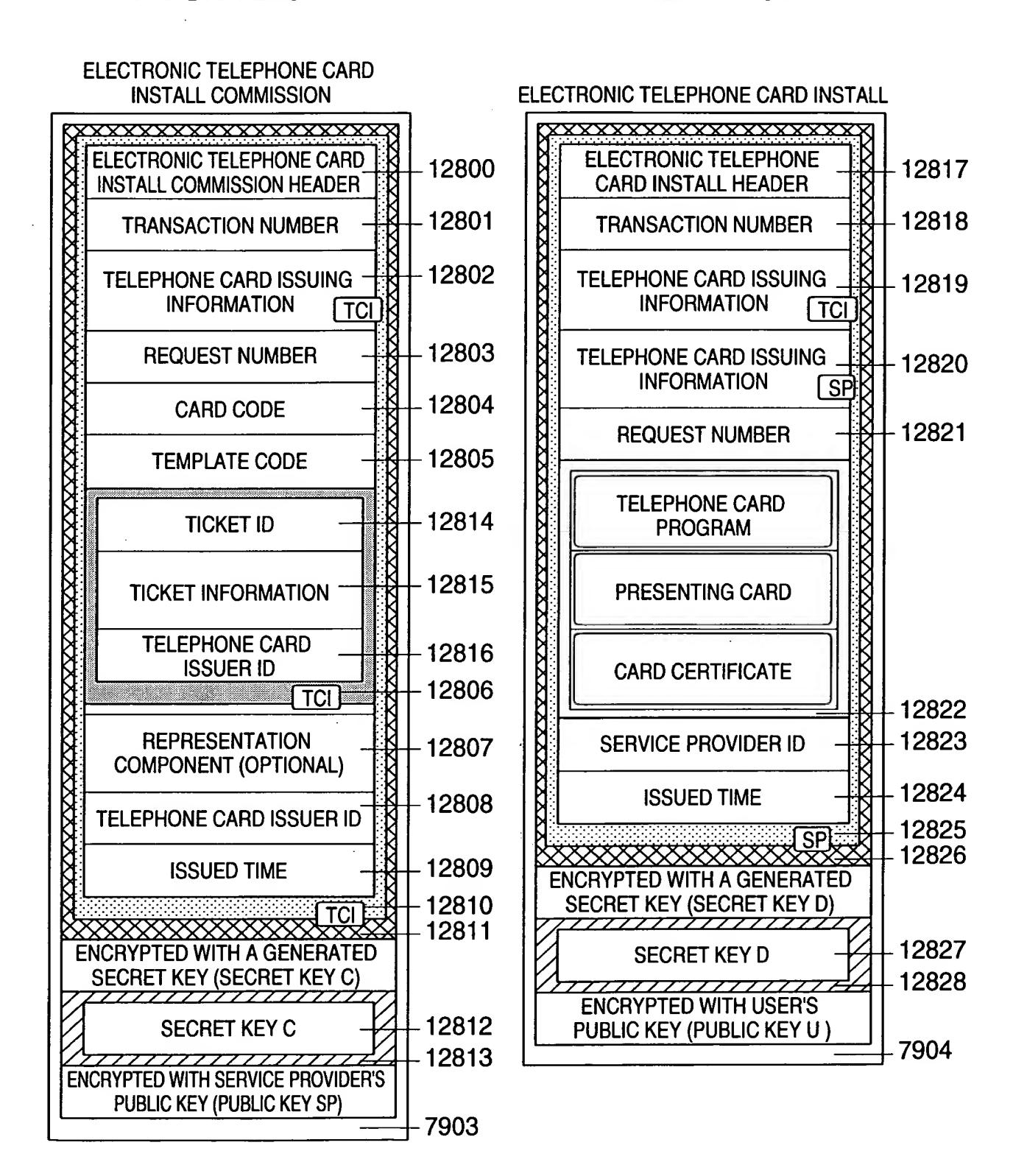


FIG.128A

FIG.128B

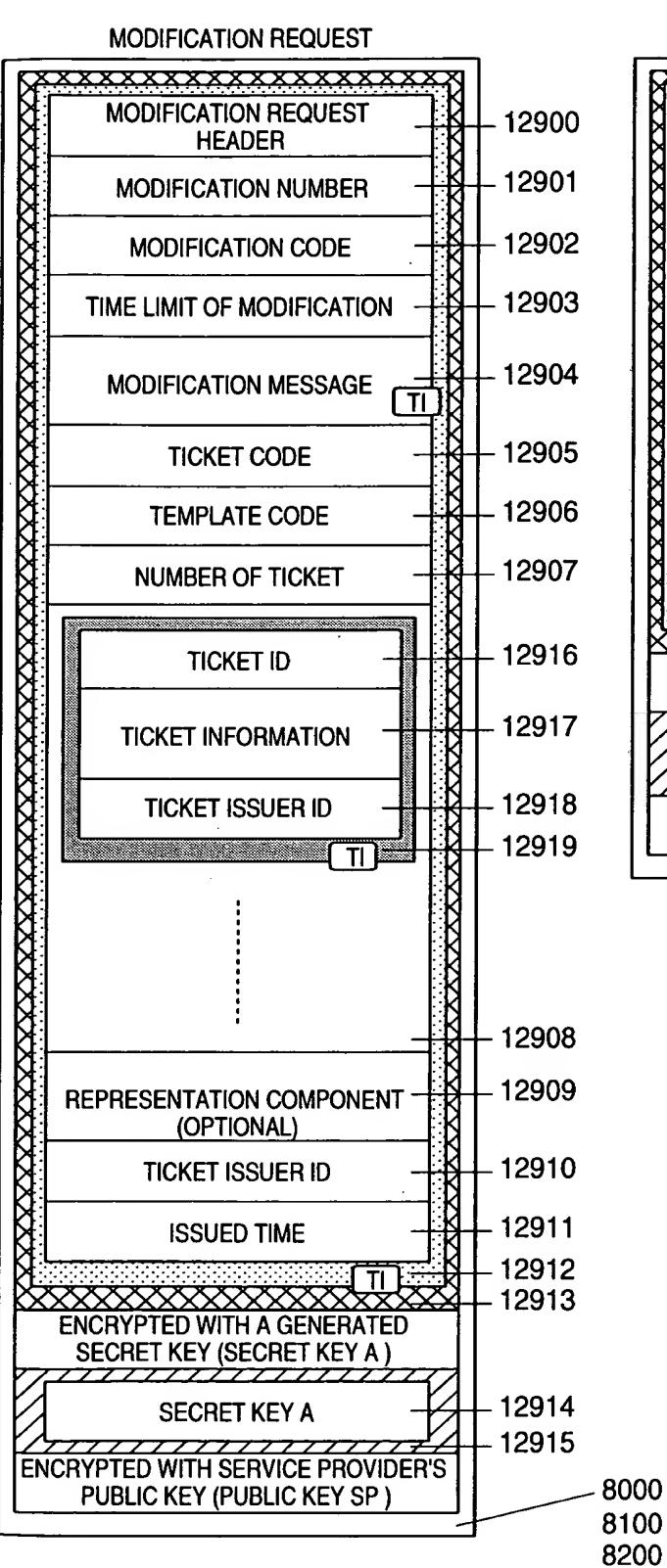


8300

FIG.129A

poor s

FIG.129B



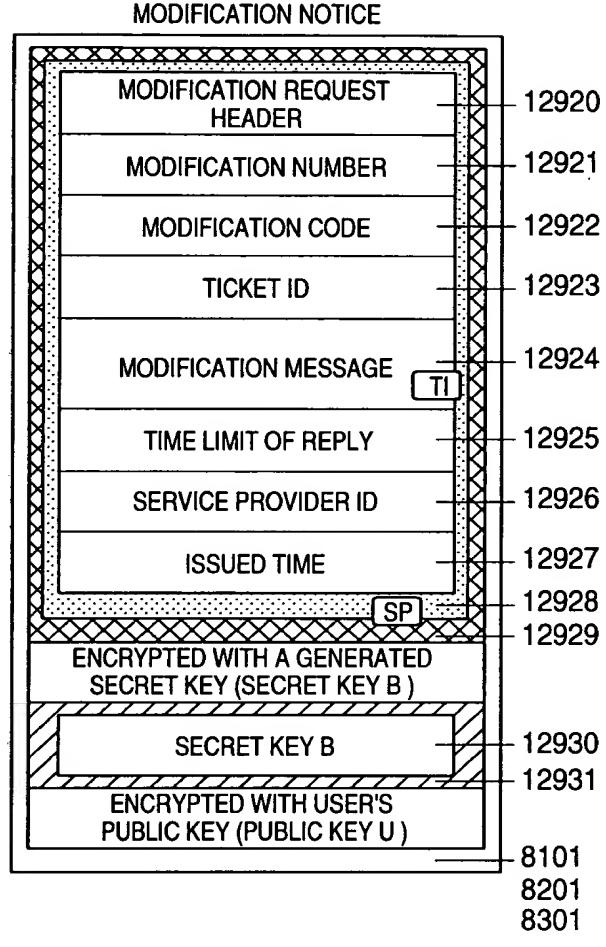


FIG.130A

FIG.130B

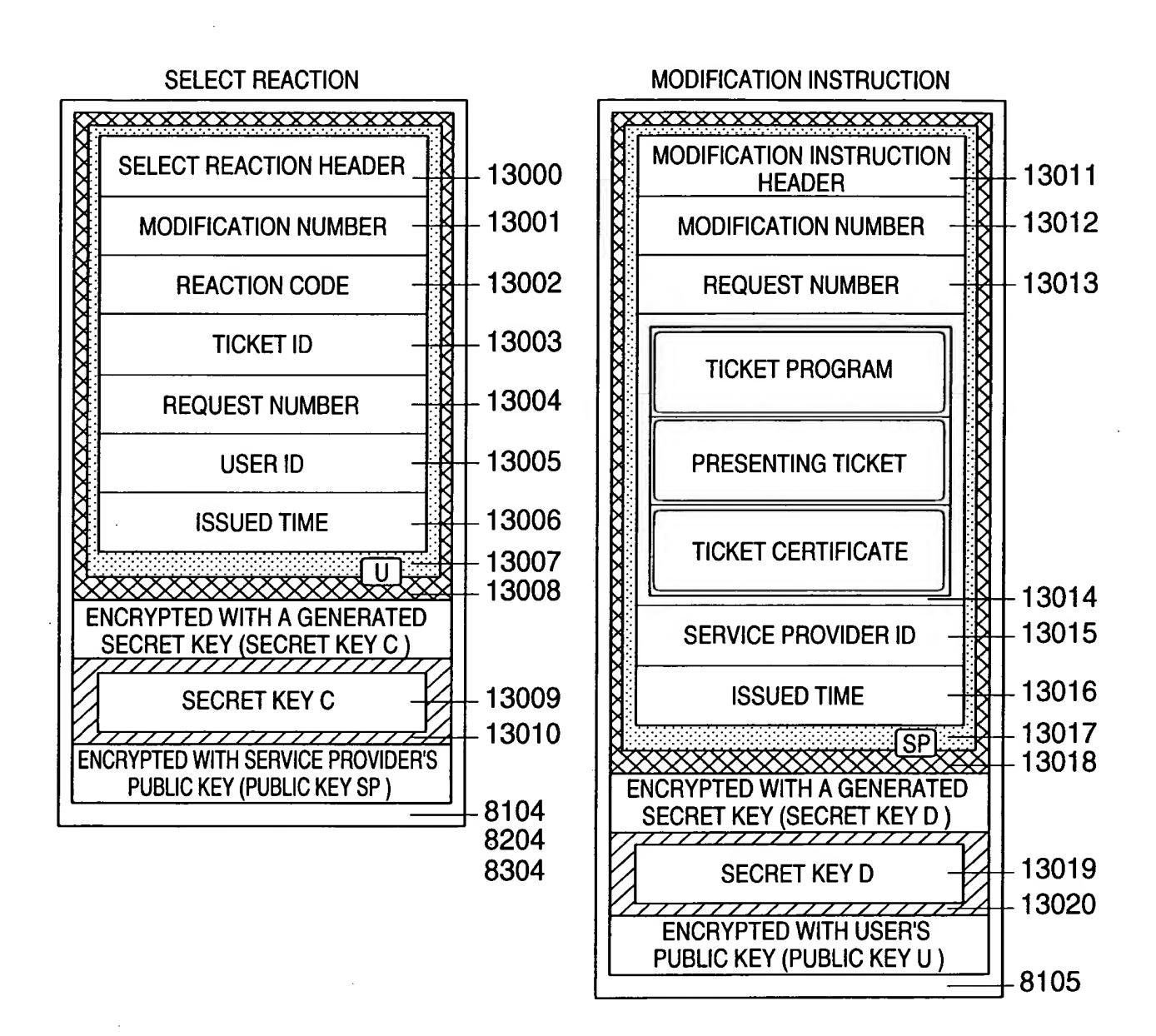


FIG. 131A

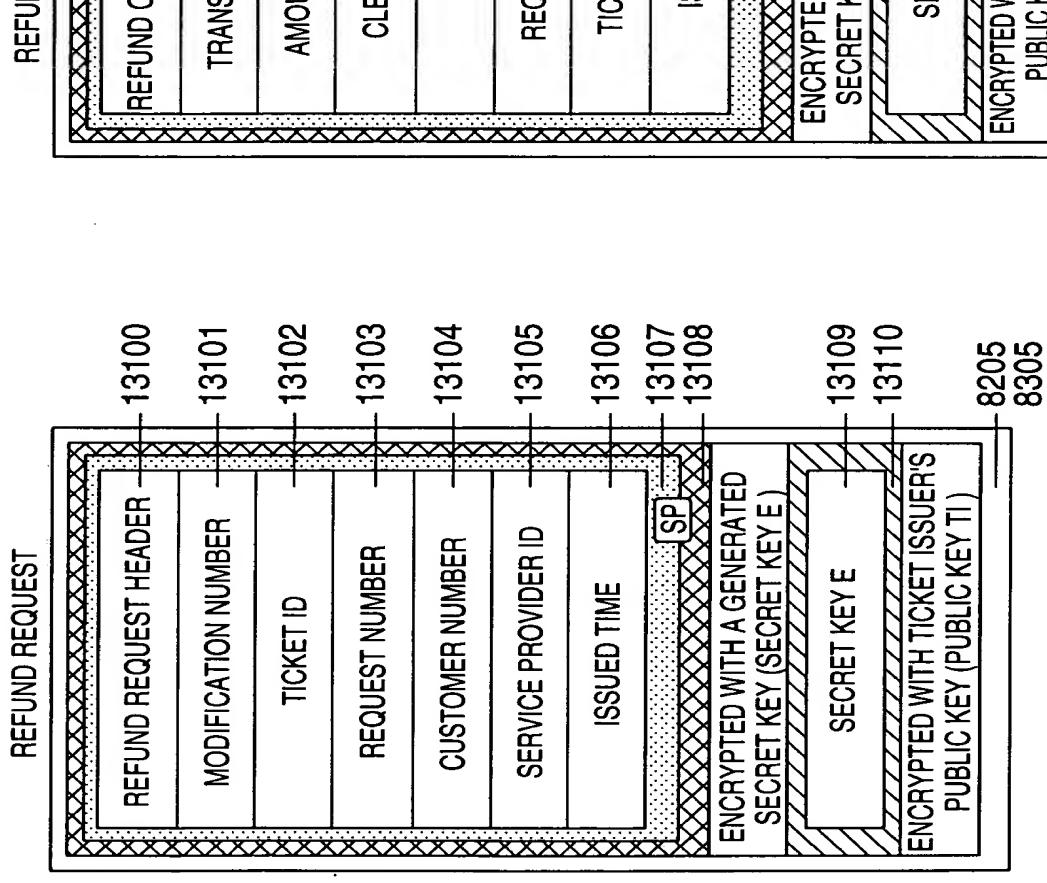


FIG. 131B

13119 13113 13118 13114 13115 13116 13117 13122 13111 **ENCRYPTED WITH SERVICE PROVIDER'S** XXXXXXXXXXXXXXXXXX **ENCRYPTED WITH A GENERATED** REFUND COMMISSION HEADER SECRET KEY (SECRET KEY F TRANSACTION NUMBER PUBLIC KEY (PUBLIC KEY SP REFUND COMMISSION AMOUNT OF REFUND REQUEST NUMBER **CLEARING OPTION** TICKET ISSUER ID SECRET KEY F ISSUED TIME **TICKET ID**

FIG.132A

FIG.132B

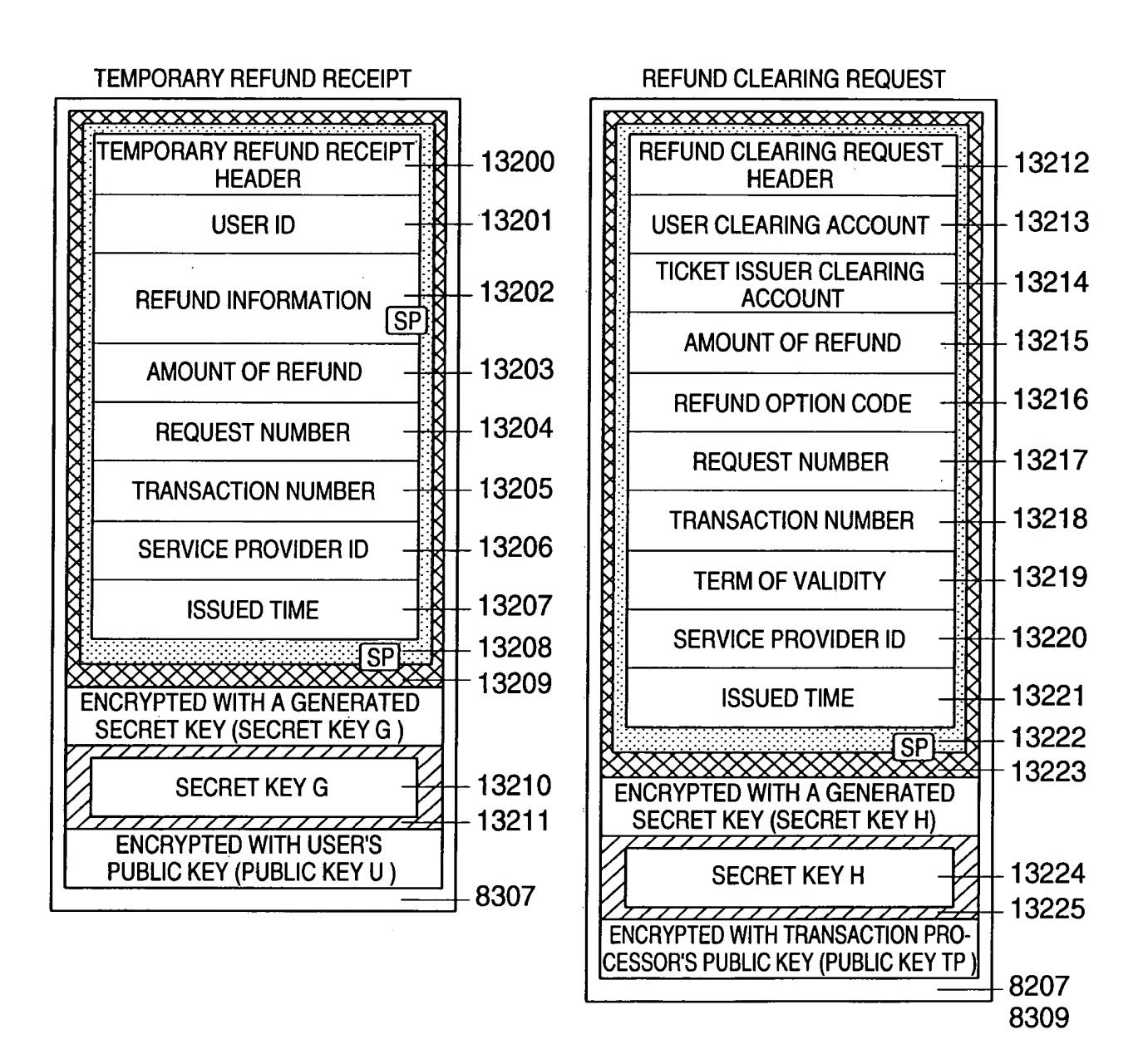


FIG.133A

FIG.133B

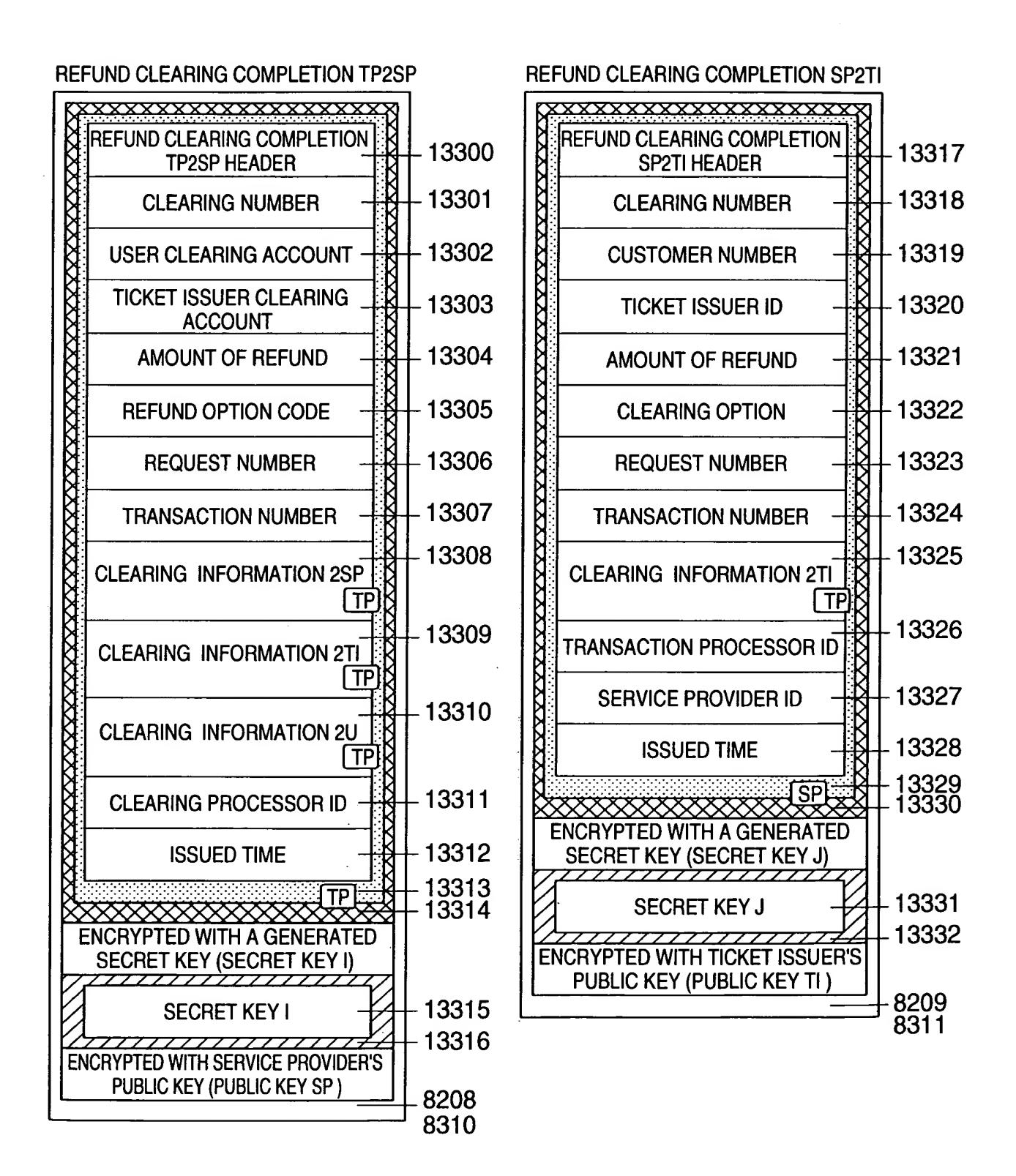
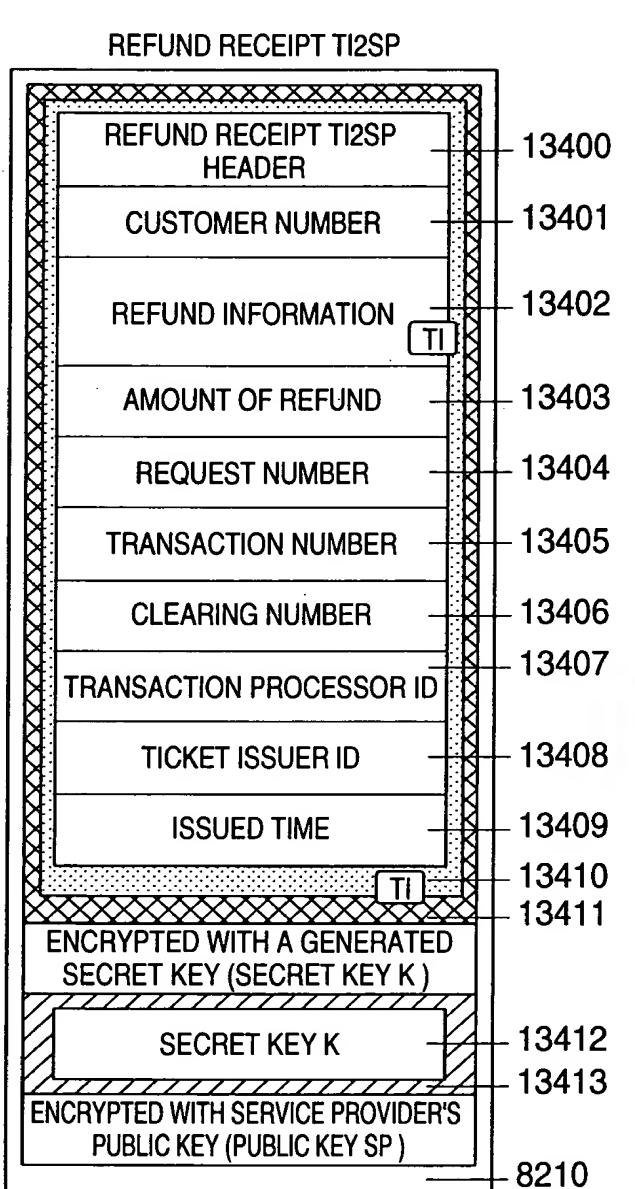


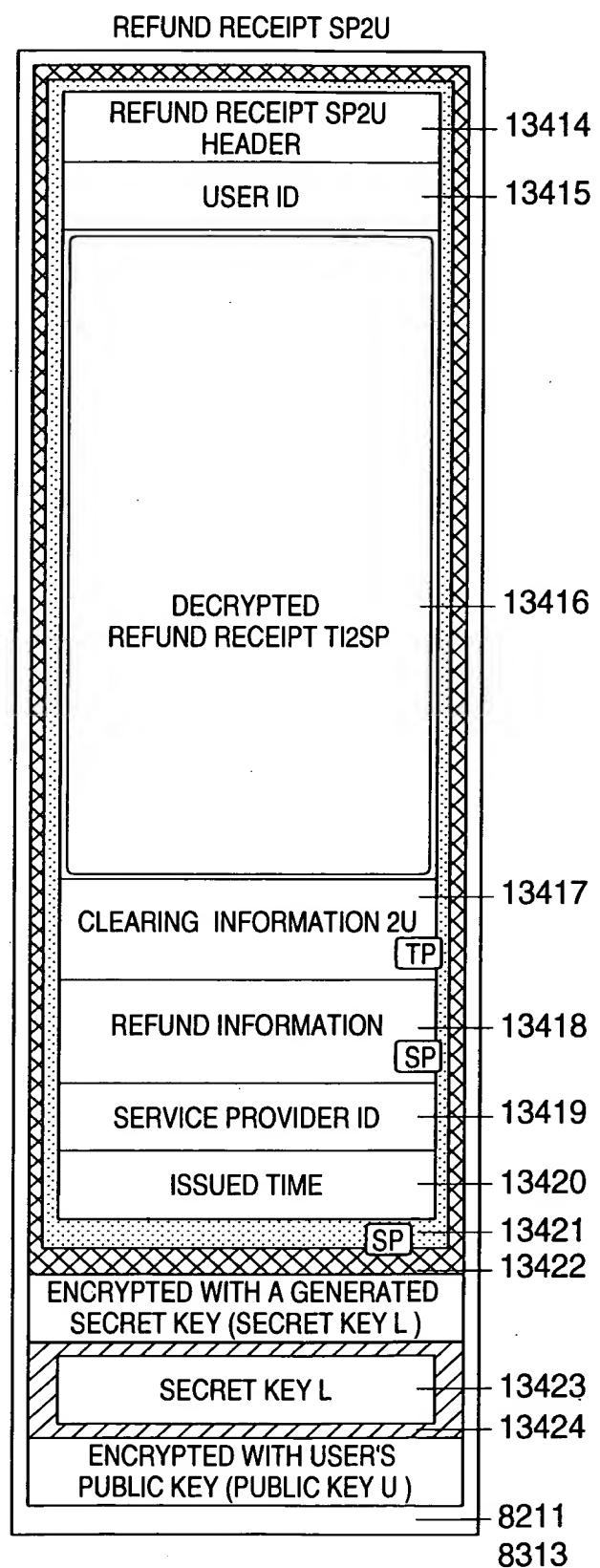
FIG.134A

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FIG.134B



8312



13523

ENCRYPTED WITH SERVICE PROVIDER'S

SECRET KEY A

PUBLIC KEY (PUBLIC KEY SP)

3521

ENCRYPTED WITH A GENERATED

SECRET KEY (SECRET KEY

FIG. 135A

PAYMENT OFFER

135B

: 5

::5

FER RESPONSE

PAYMENT OF

13500

PAYMENT OFFER HEADER

-13501

PAYMENT SERVICE CODE

13515 13508 13510 13512 13513 13509 13514 13511 8406 SP PAYMENT OFFER RESPONSE HEADER TRANSACTION NUMBER RESPONSE SERVICE PROVIDER'S TELEPHONE NUMBER EFFECTIVE PERIOD **AMOUNT OF SALE** HANT ID ISSUED TIME MERCI MESSAGE

-13504

AMOUNT OF PAYMENT

13503

REQUEST NUMBER

13505

PAYMENT OPTION CODE

13506

EFFECTIVE PERIOD

13507

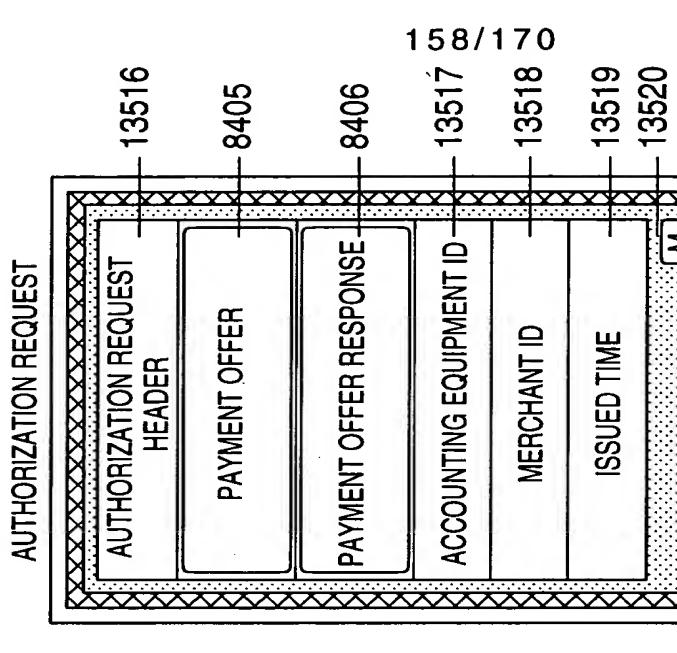
ISSUED TIME

-8405

13502

SERVICE PROVIDER ID

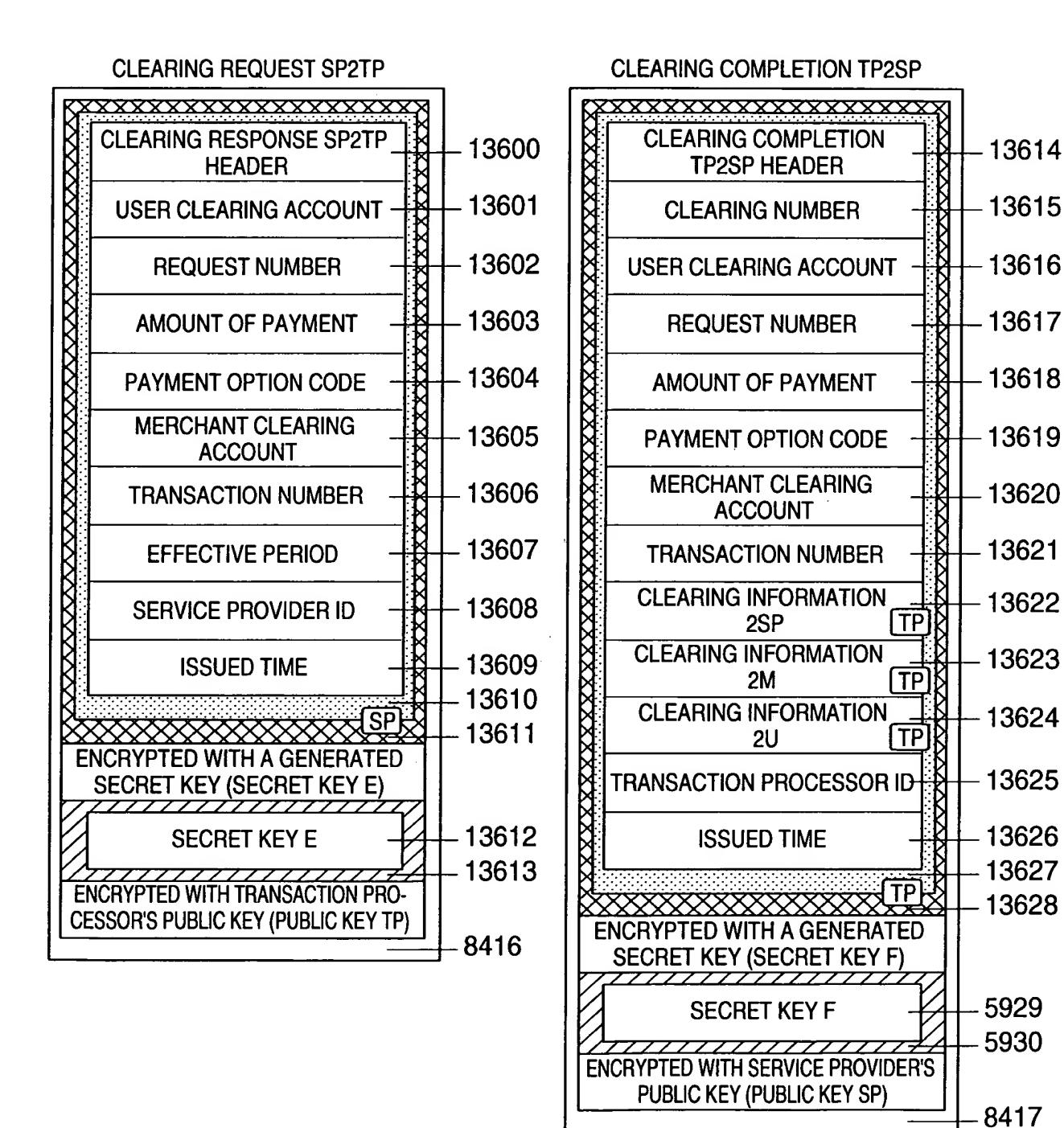
FIG. 135C

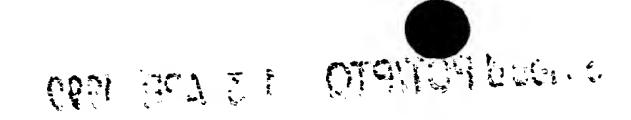


159/170 13546 13552 13553 13544 13545 13548 13549 13550 13547 13551 8406 8405 8415 ENCRYPTED WITH SERVICE PROVIDER'S PAYMENT OFFER RESPONSE ACCOUNTING EQUIPMENT ID SECRET KEY (SECRET KEY D) **CLEARING REQUEST M2SP** CLEARING REQUEST M2SP **AUTHORIZATION NUMBER** PUBLIC KEY (PUBLIC KEY SP) FIG. 135F EFFECTIVE PERIOD PAYMENT OFFER SECRET KEY D MERCHANT ID ISSUED TIME HEADER 13536 13533 13535 13532 3538 3539 13542 13534 3540 13543 13537 3541 13531 8411 IH A GENERATED (PUBLIC KEY M) ON RESPONSE ON RESPONSE **AUTHORIZATION NUMBER AUTHORIZATION RESULT** ON NUMBER 135日 SECRET KEY **USER PERSONAL DATA** ROVIDER ID NUMBER **VE PERIOD** SECRET KEY C ISSUED TIME HEADER Œ ENCRYPTED WIT **EFFECTIN** XXXXXXX **TRANSACTI** CUSTOME SERVICE P ENCRYPTED WI **AUTHORIZATI** AUTHORIZATI PUBLIC KEY (SECRET KEY 13524 13526 13527 13529 13530 13525 13528 8405 8406 8410 ENCRYPTED WITH SERVICE PROVIDER'S PUBLIC KEY (PUBLIC KEY SP) ENCRYPTED WITH A GENERATED PAYMENT REQUEST HEADER PAYMENT OFFER RESPONSE SECRET KEY (SECRET KEY B) FIG. 135D PAYMENT REQUEST **PAYMENT OFFER** SECRET KEY B **ISSUED TIME USER ID**

FIG.136A

FIG.136B





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FIG.136C

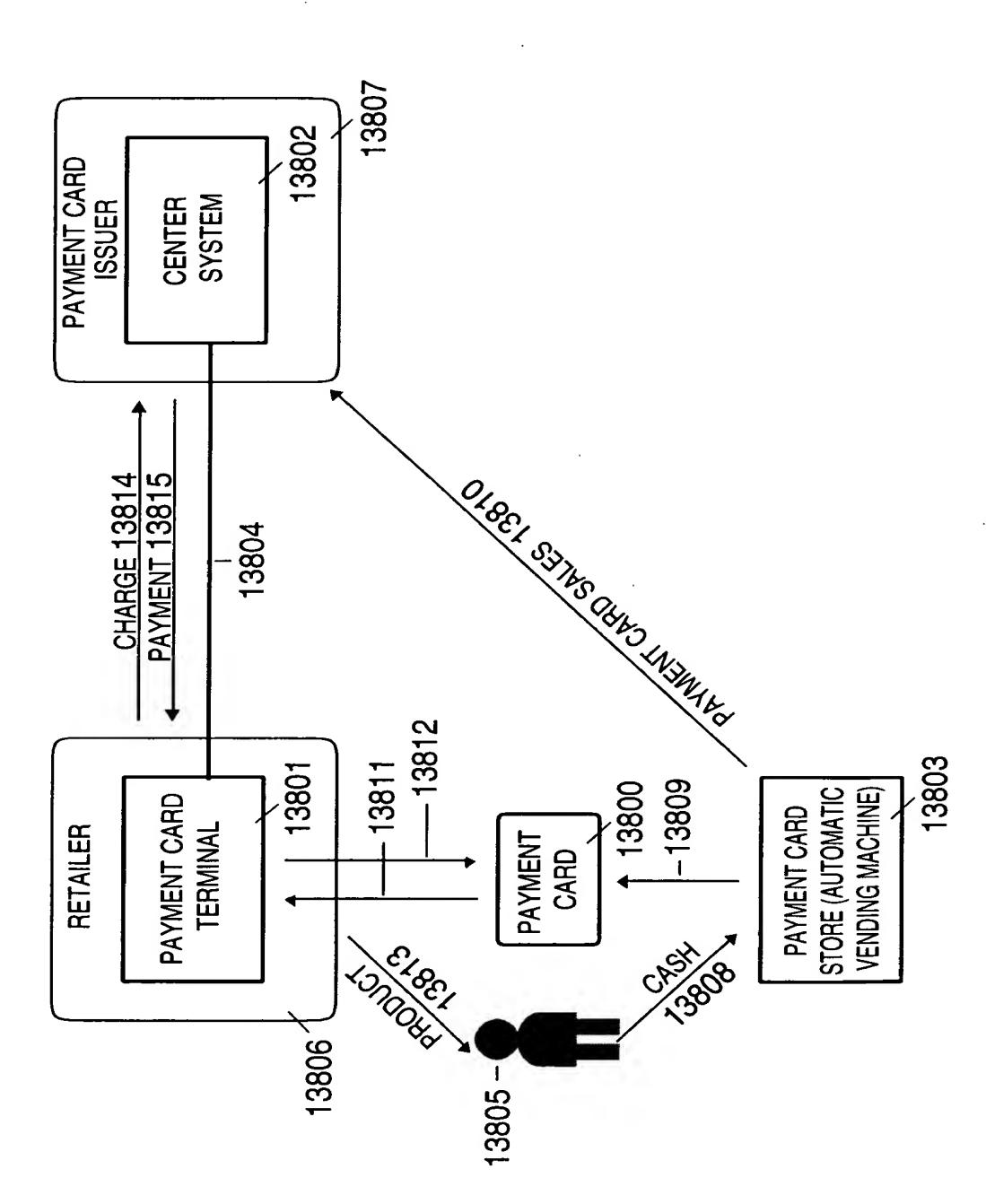
CLEARING COMPLETION SP2M CLEARING COMPLETION 13631 **SP2M HEADER** 13632 **CLEARING NUMBER** 13623 **CLEARING INFORMATION** 回 2M 13633 **CUSTOMER NUMBER DECRYPTED CLEARING** 13550 **REQUEST M2SP** 13634 **PROVIDED SERVICE INFORMATION 2M** (SP) 13635 **SERVICE PROVIDER ID** 13636 **ISSUED TIME** 13637 13638 **ENCRYPTED WITH A GENERATED** SECRET KEY (SECRET KEY G) 13639 **SECRET KEY G** 13640 **ENCRYPTED WITH MERCHANT'S** PUBLIC KEY (PUBLIC KEY M) 8418

13712 13719 13713 13624 13714 3715 13716 3718 13720 13717 8421 **S** ENCRYPTED WITH A GENERATED SECRET KEY (SECRET KEY I) PUBLIC KEY (PUBLIC KEY U) **ENCRYPTED WITH USER'S** CLEARING INFORMATION 2U RECEIPT SP2U HEADER PROVIDED SERVICE INFORMATION 2U SERVICE PROVIDER ID RECEIPT SP2U RECEIPT M2SP **ISSUED TIME** SECRET KEY DECRYPTED **USER ID** FIG. 137B -13700 -13702-13708-13703-13704-13705-13706-13709-13710 -13701 13707 13711 -8405 -8419 ENCRYPTED WITH SERVICE PROVIDER'S XXXXXXXXXXXXXXXXXX **ENCRYPTED WITH A GENERATED** ACCOUNTING EQUIPMENT ID SECRET KEY (SECRET KEY H) PUBLIC KEY (PUBLIC KEY SP) RECEIPT M2SP HEADER TRANSACTION NUMBER SALES INFORMATION **CLEARING NUMBER PAYMENT OFFER** RECEIPT M2SP SECRET KEY H MERCHANT ID ISSUED TIME ITEM

E

FIG. 137A

FIG. 138A



11.000

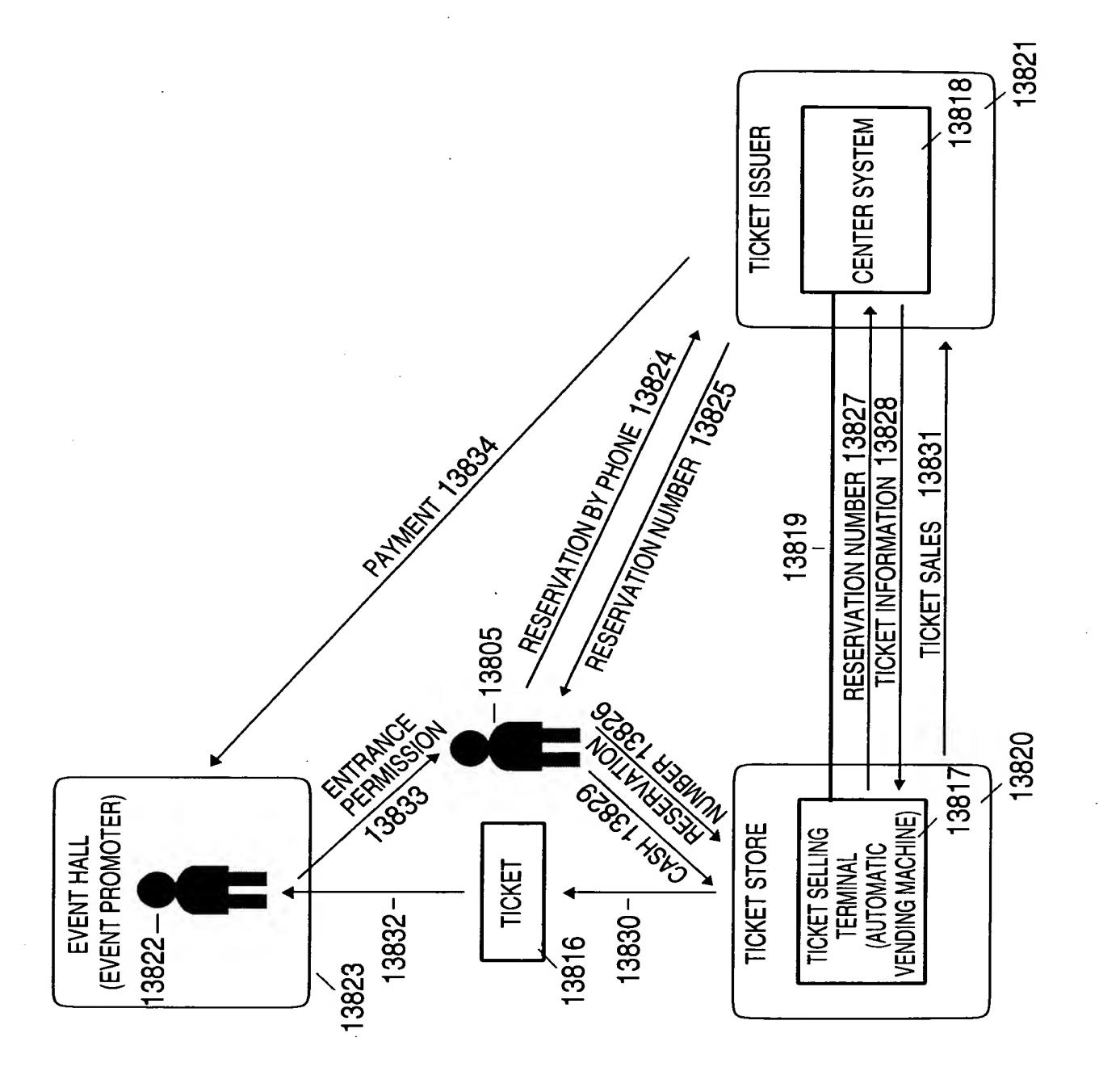


FIG. 138B

6.4 6.3 ii... 16 8 8 11.8 11.11 67. 47. 6 6 67. 11.10 8.5

ļ: **.**Ē E.B. E.C. E....

13901 300 311 13900 FIG.139B EXECUTE 312 -303 -306 -307 308 302 FIG. 139A 1111 2222 3333 4444 CreditCard Corporation CREDIT CARD 9 თ PAYMENT CANCELLATION USE HISTORY HELP Taro Suzuki 300 310 ¥ Ş Ş N Ω ∞ POWER

SPEECH

305

304

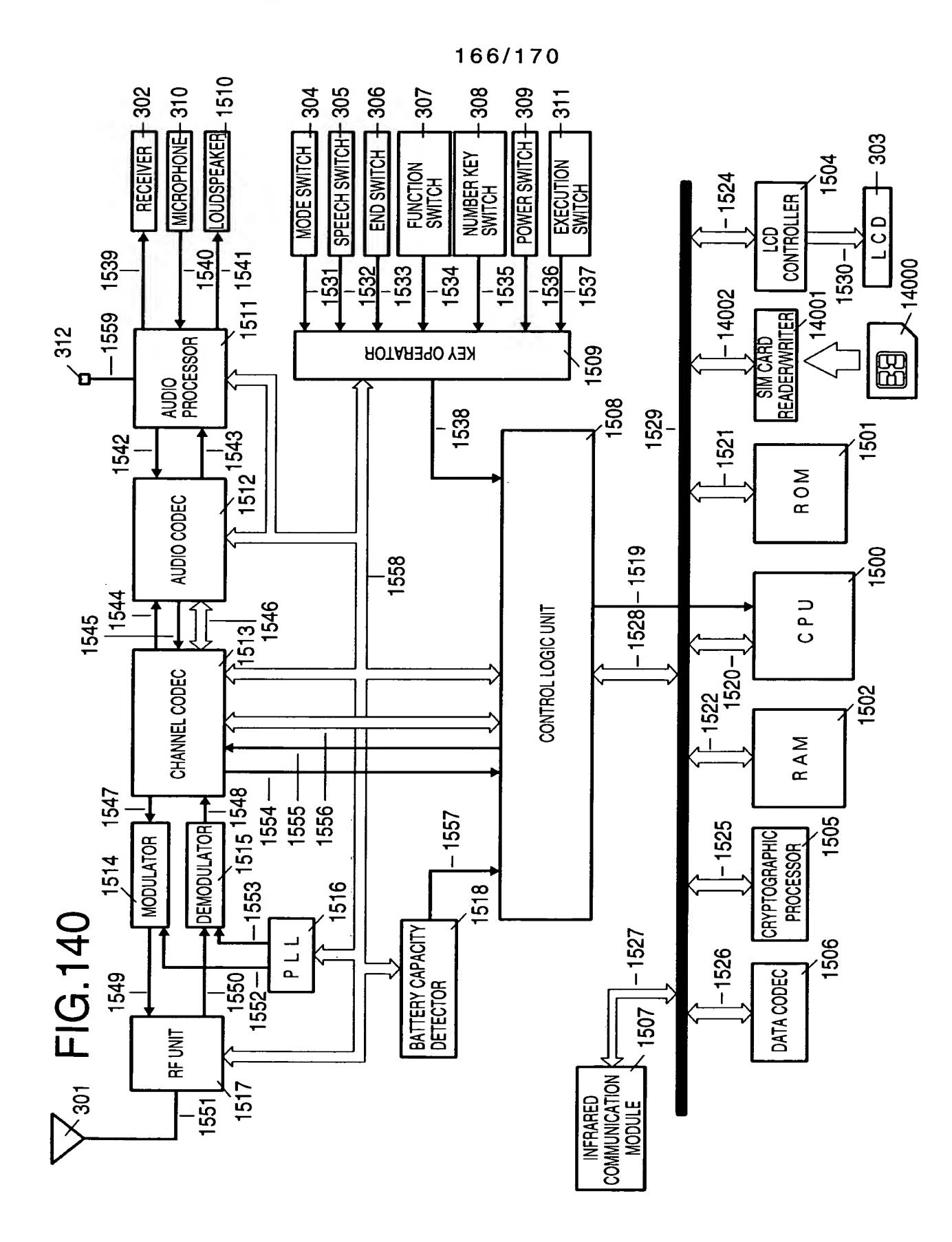




FIG.141A

FIG.141B

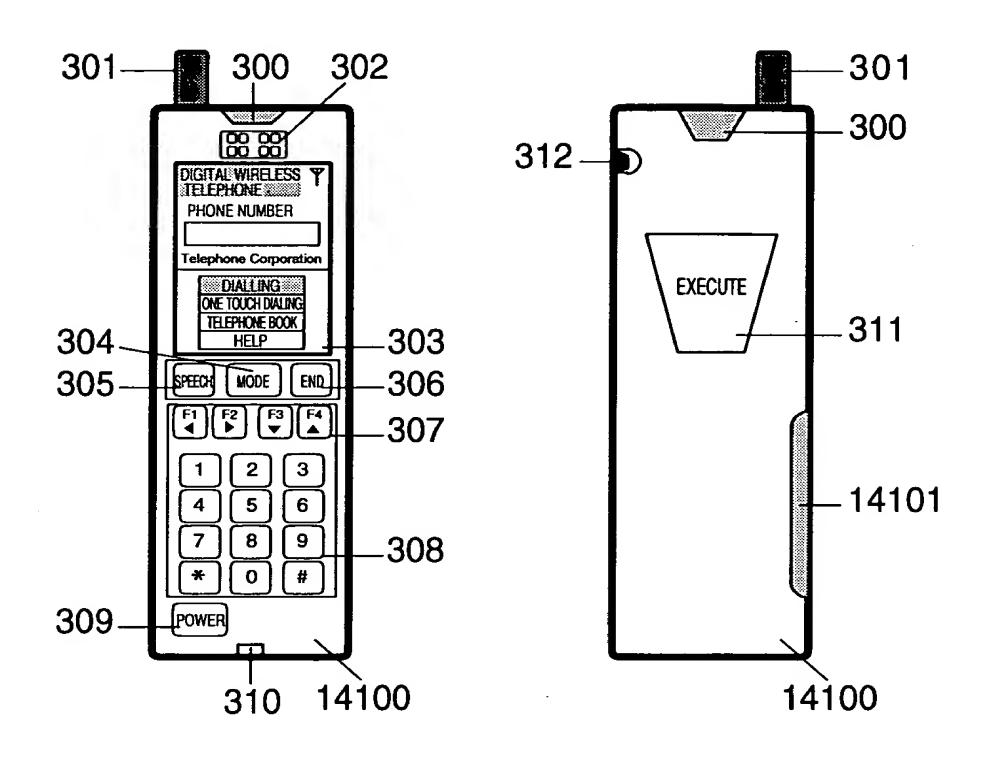
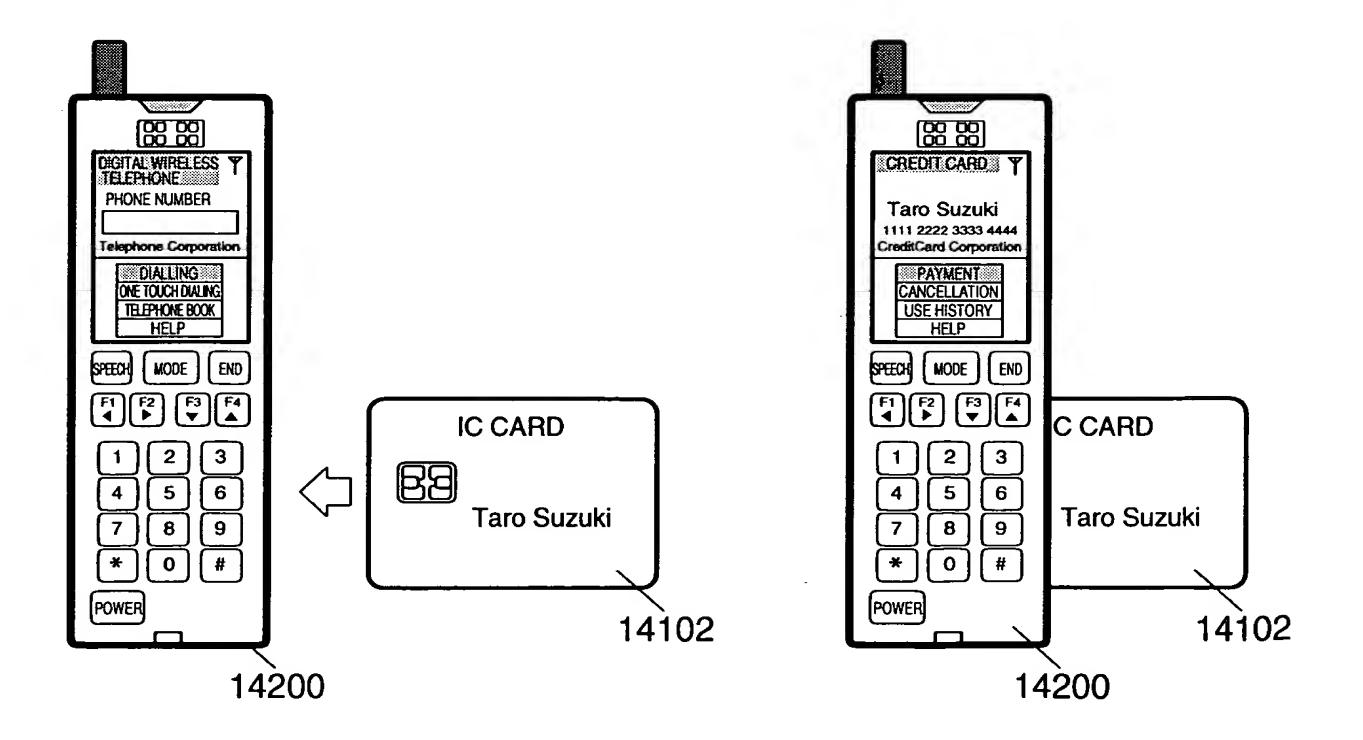
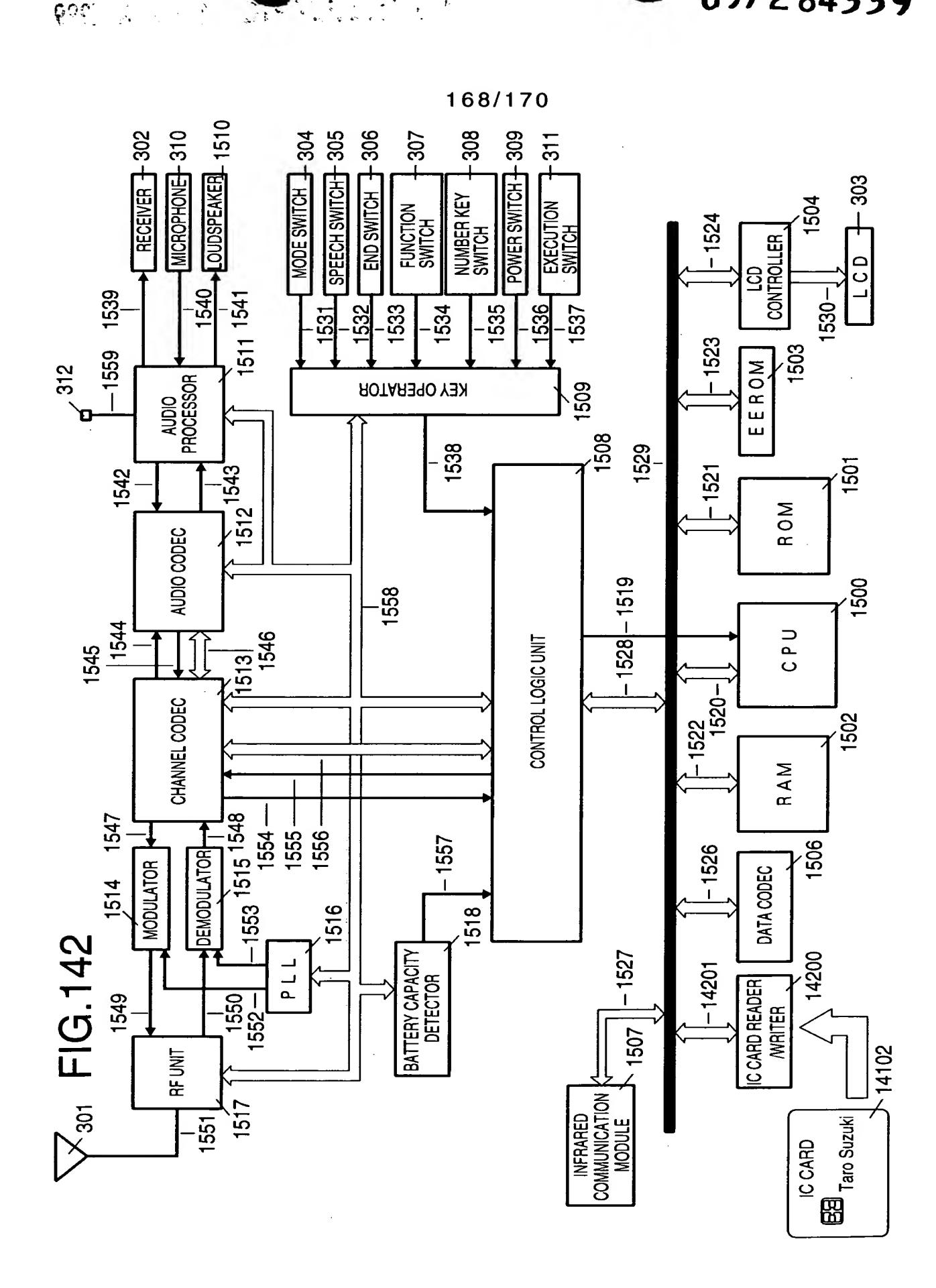


FIG.141C

FIG.141D





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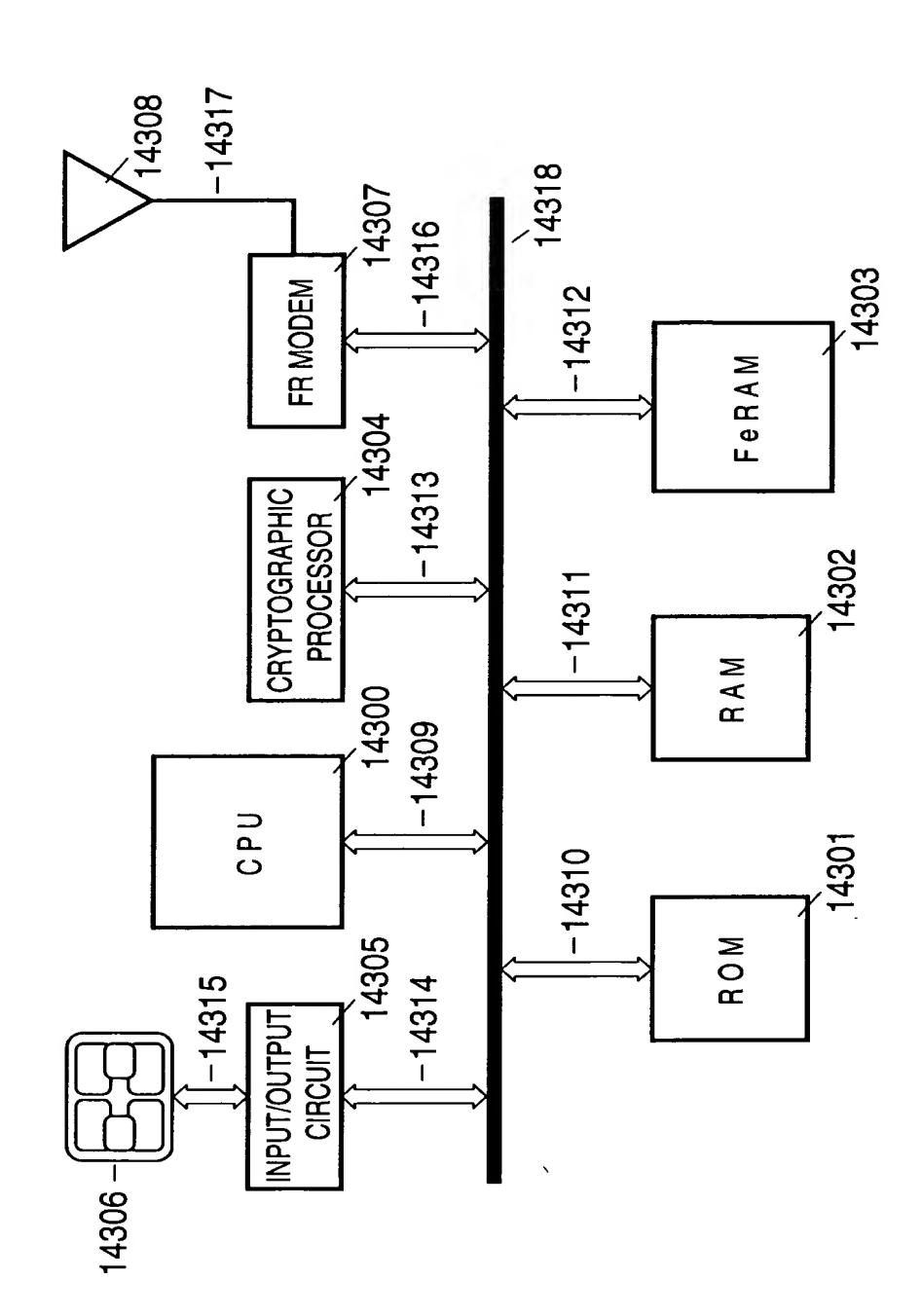


FIG.143



FIG.144

SECURITY AREA 14400
FUNDAMENTAL PROGRAM OBJECTS AREA 14401
SERVICE DATA AREA 14402
USER AREA 14403
TEMPORARY AREA 14404